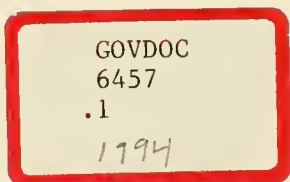


1994 Annual Report

Vital Statistics of Massachusetts

Massachusetts Department of Public Health
Public Document No. 1





WILLIAM F. WELD
Governor

ARGEO PAUL CELLUCCI
Lieutenant Governor

JOSEPH GALLANT
Secretary

DAVID H. MULLIGAN
Commissioner

The Commonwealth of Massachusetts
Executive Office of Health and Human Services
Department of Public Health
Registry of Vital Records and Statistics
470 Atlantic Avenue, Second Floor
Boston, MA 02210-2208

January 1997

**To the Honorable Senate and
House of Representatives:**

We have the honor to submit as required by Chapter 111, Section 2 of the General Laws, the one hundred fifty-third annual report on statistics of births, deaths, marriages and divorces in Massachusetts for calendar year 1994.

This is the thirty-first ANNUAL REPORT OF VITAL STATISTICS published by the Department of Public Health and is intended to assist in the development of policy and programmatic initiatives within the Department, as well as to provide State officials and agencies, and the general public, with valuable statistical information.

Sincerely,

A handwritten signature in dark ink, appearing to read 'D. Mulligan', with a long, sweeping horizontal line extending to the right.

**David H. Mulligan
Commissioner**

**ANNUAL REPORT
VITAL STATISTICS OF MASSACHUSETTS
PUBLIC DOCUMENT #1
1994**

**THE COMMONWEALTH OF MASSACHUSETTS
DEPARTMENT OF PUBLIC HEALTH**

**WILLIAM F. WELD, GOVERNOR
JOSEPH GALLANT, SECRETARY OF HEALTH AND HUMAN SERVICES
DAVID H. MULLIGAN, COMMISSIONER OF PUBLIC HEALTH**

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JANUARY 1997

ACKNOWLEDGEMENTS

This publication of the 1994 ANNUAL REPORT OF VITAL STATISTICS is the result of the combined efforts of all data providers, including the 351 city and town clerks, hospital personnel, physicians, funeral directors, probate courts, clinics, and Department of Public Health personnel. We gratefully acknowledge the assistance provided by all data providers, without whose efforts there would be no vital statistics.

Department of Public Health staff most significantly involved in the production of the 1994 ANNUAL REPORT OF VITAL STATISTICS include:

Bruce Cohen, Christine A. Payne and Abigail R. Averbach, Bureau of Health Statistics, Research and Evaluation: assistance and technical data from Advance Data: Births 1994 and Advance Data: Deaths 1994;

Robert Danley, Bureau of Health Statistics, Research and Evaluation: population statistics;

Michael Healey, Division of Data Processing: data file management and vital events series printouts;

Duke Rhoden, Bureau of Health Statistics, Research and Evaluation: supervision of computer graphics, with programming by Howard H. Wong;

Karin Barrett, Data Quality Assurance Coordinator, and Charlene Zion, Information Officer, Registry of Vital Records and Statistics: coordination of the hospital query program for birth certificate data, specialized data programming, and assistance in developing specialized table production;

Phyllis Zeuli, Assistant Registrar for Statistics: supervision of data collection, coding and editing, with technical assistance from Maureen McKean (Statistics Unit supervisor) and Robert Coffin (Chief Nosologist).

The joint efforts of all the staff of the Registry of Vital Records and Statistics are necessary to produce the data contained in this publication. Special acknowledgement is made to the following Registry supervisors:

Alan Goldin, Director of Automation, who is responsible for the installation and supervision of the Electronic Birth Certificate system (EBC) and all computer-based systems in the Registry office;

James Orseno, Operations Unit Supervisor, who is responsible for all printing and mailing of forms;

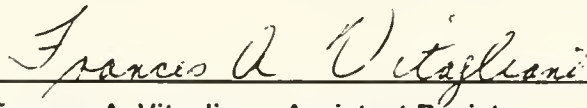
Phyllis Rotman, Registration Unit Supervisor, who is responsible for coordination with cities and towns to produce the data in a timely fashion;

Lisa Varnerin, Records Unit Supervisor, who is responsible for maintaining all records and issuing certified copies.

The 1994 ANNUAL REPORT OF VITAL STATISTICS has been compiled and produced under the general supervision and direction of:

**Daniel J. Friedman, Ph.D., Assistant Commissioner
Bureau of Health Statistics, Research and Evaluation**

**Elaine B. Trudeau, Registrar of Vital Records and Statistics
Registry of Vital Records and Statistics**

A handwritten signature in cursive script, reading "Frances A. Vitagliano", is positioned above a solid horizontal line.

**Frances A. Vitagliano, Assistant Registrar
Editor**

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INTRODUCTION

The **ANNUAL REPORT OF VITAL STATISTICS** (Public Document No. 1) has been continuously published since 1842. This is the 31st edition produced by the Department of Public Health. This report, required under the provisions of Chapter 111, section 2, of the Massachusetts General Laws, tabulates data on Massachusetts births, fetal deaths, deaths, marriages, divorces, and population for calendar year 1994. Approximately 2,000 copies of the report are distributed to federal, state, and local governmental agencies, private and public health planners and researchers, students, and members of the general public. The report provides its users with an overview of the health status of the Massachusetts population.

Vital statistics data may be tabulated either in terms of resident data or occurrence data. Resident data include all events which occur to residents of the Commonwealth, wherever the events occur. Occurrence data include all those events which occur within the state, including those which occur to out-of-state residents. There is an interstate exchange of copies of birth, death, and fetal death records among the fifty states, the District of Columbia, Puerto Rico, the Virgin Islands, Guam, and all Canadian provinces. These records are exchanged for statistical purposes only, for events which occur in states other than where the individual resides. This exchange allows each of the states and provinces to track the births and deaths of their residents. The majority of the data presented in this report for births and deaths is based on resident data. Marriage and divorce data, however, only reflect events which occurred within the Commonwealth.

REGISTRATION

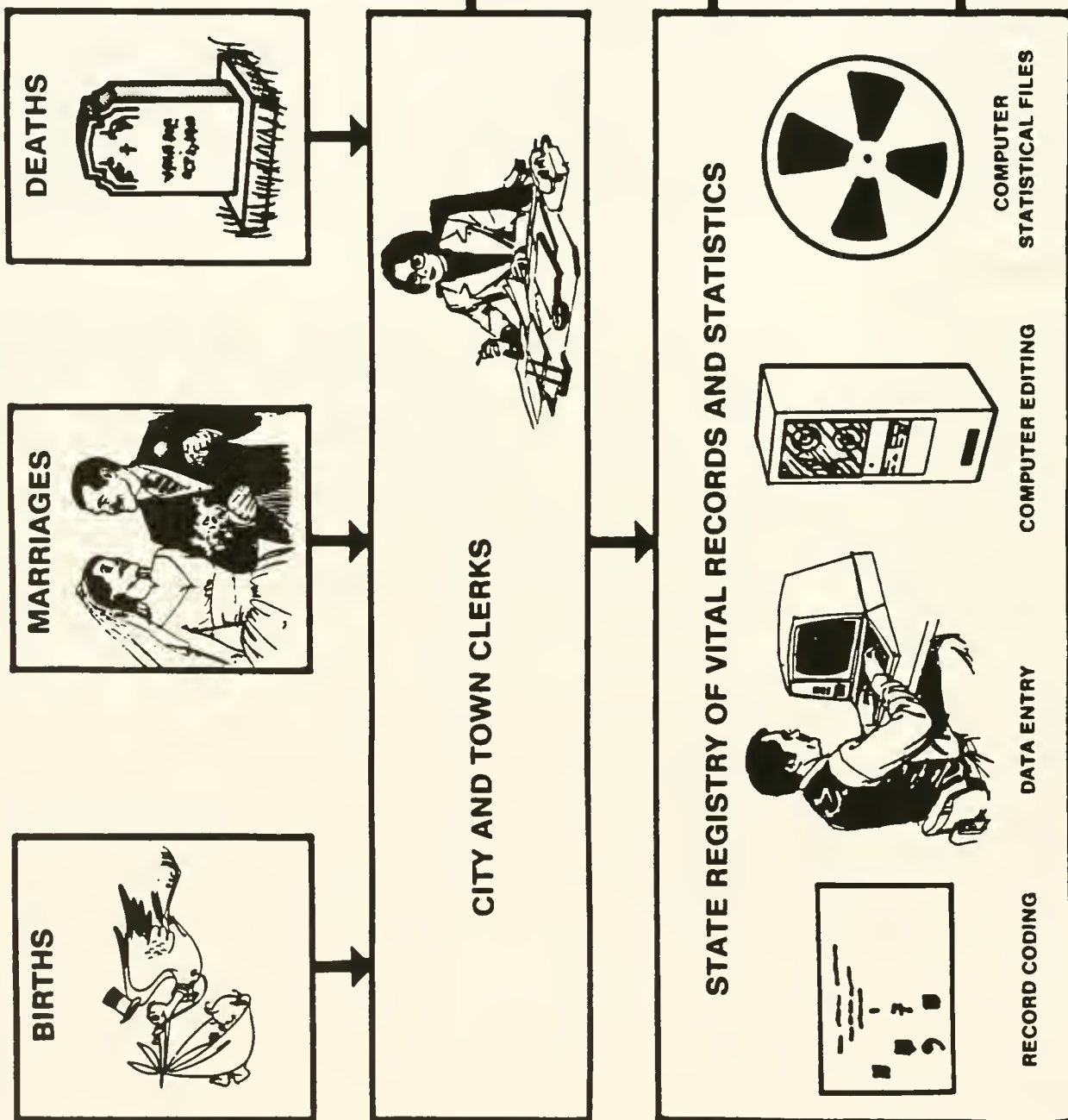
The first government-operated system of vital events registration anywhere in the world began in the Commonwealth of Massachusetts in 1639 under colonial administration. Prior to that time, in countries such as England with a vital registration system, the responsibility for the registration of vital events had been placed on church officials. The Massachusetts system mandated the registration of vital events by the clerks of the communities. In 1842, the Massachusetts legislature established the first statewide coordination for the registration of these events by requiring that copies of the events registered in the local cities and town be sent to the Secretary of State. The first year of collection was designated for 1841. The collection of data and the production of the **ANNUAL REPORT OF VITAL STATISTICS** has continued since then. With the exception of the administrative location of the State Registry, the actual mechanics of the system have changed remarkably little over the years.

With limited exceptions, most vital records in Massachusetts are open public records. The figure on the next page illustrates the registration process in Massachusetts. For open birth and death records, there is a triple registration process in Massachusetts. The event is first recorded in the city or town where the event occurred. The clerk of that community is then required to forward a certified copy of the record to both the community where the person resided at the time of the event and to the State Registry. Certified copies of the records may be issued from local or state records. If the record is a restricted record, such as those of out-of-wedlock births, the registration occurs only in the community where the event occurred and in the state office.

The Vital Records and Statistics Process

PRODUCT

PROCESS



In addition to receiving a legal copy of each birth record from the city or town in which the birth occurred, the State Registry also receives a confidential copy of the birth record directly from the hospital or birthing center where the birth occurred. This copy includes confidential medical information in addition to the legal information. It is this copy of the record which is processed to produce the statistical information on births contained in this report.

Since 1986, the State Registry has developed a program of direct electronic transmission of birth records from hospitals. The system used in Massachusetts is called Electronic Birth Certificate (EBC). Almost 98 percent of all birth records are now received through this method. EBC has contributed to reducing processing time at both the hospital and the State Registry, while the system's built-in edits increase the quality of the data.

Anyone wishing to be married in the Commonwealth may receive a marriage license from any of the 351 cities or towns in the state, regardless of residence or where the marriage is to take place in the Commonwealth. The community issuing the license is required to send an attested copy of the marriage record to the State Registry.

The process for creating death certificates is the most complex of all vital records. Complete and accurate death records are dependent upon the following individuals: 1.) Certifier, who not only initiates the death registration process but also determines the cause of death as well as the place, time, and date of death; 2.) Funeral Director, who plays the role of facilitator in the death registration process and adds the personal data concerning the decedent, which are supplied by an informant; 3.) Burial Agent, who both issues the permit that allows the chosen disposition to take place and serves as the initial acceptor of the death certificate for official registration; and, 4.) City or Town Clerk, who records the death certificate, issues certified copies of same and forwards a copy of the death record to the Registry of Vital Records and Statistics and other communities as required by law.

The Registry of Vital Records and Statistics receives directly from hospitals or physicians the fetal death reports for fetuses of either twenty or more weeks gestation or weighing at least 350 grams. There are no local filings of fetal death reports.

Abstracts of divorces granted are also sent directly to the State Registry from the Registers of Probate from each county probate court.

STATISTICAL PROCESSING AND TABULATING

The records received in the State Registry are carefully examined for legal errors and inconsistencies. As part of the computerization process, errors and inconsistencies are queried and corrected. A computerized hospital query program is part of the EBC program. The Registry also has a data quality assurance program that includes on-site instruction for clerks and hospital personnel who have reporting difficulties, and training for all groups involved in the data collection process.

Annually, when registration is considered as complete as possible, statistics are aggregated for presentation in this report and in special studies, and for program monitoring and surveillance.

Anyone using statistical information for comparisons over time should be aware of inconsistencies and changing conventions for classification and coding. This is particularly important when using cause of death information. Codes used for classifying cause of death in this report are based on the Ninth Revision of the International Classification of Diseases, World Health Organization. Classification of variables such as race, nativity, and marital status may also differ over time.

It is hoped that this report will be useful to a wide range of health data users in the Commonwealth, as well as to educational planners, demographers, and historians. Questions concerning these data and requests for more detailed findings should be directed to:

Massachusetts Department of Public Health
Bureau of Health Statistics, Research and Evaluation
250 Washington Street
Boston, Massachusetts 02108
(617) 624-5699

VITAL EVENTS

SECTION A

VITAL EVENTS

HIGHLIGHTS

BIRTHS

- In 1994, there were 83,758 births to Massachusetts residents.
- Births decreased by 1.0% from 1993 to 1994.
- The 1994 Massachusetts birth rate per 1,000 residents was 13.7, a decrease of 1.4% from the birth rate of 13.9 in 1993.
- Massachusetts' 1994 birth rate of 13.7 per 1,000 residents was below the 1994 U.S. rate of 14.1.
- The most births occurred in July (9.1%--7,619 births); for the second consecutive year, the fewest births occurred in both February and November (7.6%--6,328 births in each month).

DEATHS

- In 1994, 54,914 Massachusetts residents died.
- The number of deaths decreased by 1.2% from 1993 to 1994.
- The Massachusetts death rate decreased from 913.3 deaths per 100,000 residents in 1993 to 899.4 in 1994. The 1994 U.S. death rate of 875.4 deaths per 100,000 residents did not change significantly from the 1993 U.S. death rate of 880.0. The 1994 age-adjusted death rate in Massachusetts (453.6 per 100,000 residents) was lower than the U.S. age-adjusted death rate (507.4).
- The most deaths in 1994 occurred in January (9.7%--5,334); the fewest occurred in June (7.7%--4,233).

FETAL DEATHS

- There were 448 reportable fetal deaths to Massachusetts residents in 1994.
- Reportable fetal deaths decreased by 13.3% from 1993 to 1994. The fetal death rate also decreased from the 1993 rate of 6.1 per 1,000 live births and fetal deaths to a rate of 5.3 in 1994.

INFANT DEATHS

- In 1994, 499 infant deaths (less than 1 year of age) occurred to Massachusetts residents.
- The 1994 Massachusetts infant mortality rate of 6.0 deaths per 1,000 live births was a decrease from the 1993 infant mortality rate of 6.2 deaths per 1,000 live births.
- The black infant mortality rate decreased from 12.5 in 1993 to 12.0 in 1994.
- The Massachusetts 1994 infant mortality rate of 6.0 per 1,000 live births was 24.1% below the U.S. rate of 8.0.

MARRIAGES

- In 1994, there were 42,503 marriages in Massachusetts.
- The number of marriages in Massachusetts remained essentially unchanged from 1993 to 1994.
- The 1994 Massachusetts rate of 7.0 marriages per 1,000 population was below the U.S. rate of 9.1.
- The most marriages occurred in October (13.8%--5,856); the fewest occurred in January (3.5%--1,491).

DIVORCES

- In 1994, 15,450 divorces were granted in Massachusetts.
- Divorces in Massachusetts increased by 7.0% from 1993 to 1994.
- The 1994 Massachusetts divorce rate of 2.5 divorces per 1,000 population was below the U.S. rate of 4.6.
- The largest number of divorces was finalized in March (1,479--9.6%), and the fewest in May (1,097--7.1%).

NATURAL INCREASE

- The rate of natural increase in the Massachusetts resident population remained essentially unchanged from 1993 to 1994.
- The 1994 U.S. natural increase rate of 6.5 remains above that of Massachusetts.

The Vital Events section provides basic information on all vital events. In addition to the information highlighted above, this section contains summary birth and death data by city, town and county. More detailed information is contained in the sections on the individual events.

DEFINITIONS IMPORTANT FOR THIS SECTION INCLUDE:

FETAL DEATH

A fetal death is a death prior to the complete expulsion or extraction from its mother of a product of conception, irrespective of the duration of the pregnancy; the death is indicated by the fact that after such separation the fetus does not breathe or show any other evidence of life, such as the beating of the heart, pulsation of the umbilical cord, or definite movement of the voluntary muscles.

Massachusetts law requires that fetal deaths of 20 or more weeks gestation or weighing at least 350 grams be reported; therefore, the fetal deaths referred to in this report are of that gestational age or weight.

MISER

The Massachusetts Institute for Social and Economic Research. This research institute, located at the University of Massachusetts in Amherst, produces the official population estimates and projections for the Commonwealth.

NATURAL INCREASE

The difference between the number of resident live births and the number of resident deaths.

OCCURRENCE

Occurrence data reflect where the event took place without regard to residence. In Massachusetts, place will be one of 351 cities or towns.

RESIDENCE

The usual place of residence as reported by the mother (for births) or the informant (for deaths). An infant's residence is considered that of the mother. While occurrence data include only events that occurred within Massachusetts, residence data for births and deaths include those which may or may not have occurred in Massachusetts.

CRUDE RATES OF VITAL EVENTS:

BIRTH RATE	$\frac{\text{No. of Resident Live Births}}{\text{Total Resident Population}} \times 1,000$
FETAL MORTALITY RATE	$\frac{\text{Number of Resident Fetal Deaths}}{\text{Resident Live Births} + \text{Resident Fetal Deaths}} \times 1,000$
INFANT MORTALITY RATE	$\frac{\text{No. of Resident Deaths} < 1 \text{ Year}}{\text{Resident Live Births}} \times 1,000$
NEONATAL MORTALITY RATE	$\frac{\text{No. of Resident Deaths} < 28 \text{ Days}}{\text{Resident Live Births}} \times 1,000$
DEATH RATE	$\frac{\text{No. of Resident Deaths}}{\text{Total Resident Population}} \times 100,000$
MARRIAGE RATE	$\frac{\text{No. of Occurrence Marriages}}{\text{Total Resident Population}} \times 1,000$
DIVORCE RATE	$\frac{\text{No. of Occurrence Divorces}}{\text{Total Resident Population}} \times 1,000$

Table A-1 SELECTED FACTS IN VITAL STATISTICS MASSACHUSETTS: 1994

BIRTH

Age Range of Mothers: 12-51

Age Range of Fathers: 13-87

Sets of Twins: 1,218

Sets of Triplets: 69

Sets of Quadruplets: 5

Most Births Occurred on: July 28, 1994 (305 births)

Fewest Births Occurred on: December 25, 1994 (134 births)

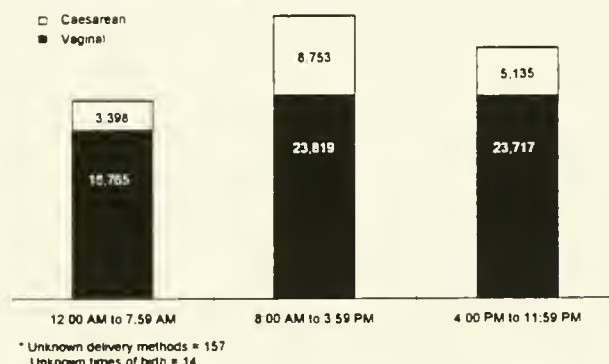
Highest # of Births at: Brigham and Women's Hospital (8,727 Births)

Lowest # of Births at: Massachusetts General Hospital (37 births)¹

Ten Most Popular Names for Babies

Boys' Names	Number	Girls' Names	Number
Michael	1,396	Emily	739
Matthew	1,165	Jessica	678
Christopher	1,025	Samantha	676
Nicholas	1,017	Sarah	674
John	856	Ashley	613
Joseph	826	Nicole	594
Daniel	806	Amanda	552
Andrew	802	Elizabeth	453
Ryan	801	Kayla	420
Tyler	692	Rachel	406

Number of Births Occurring at Specified Times
of Day when Delivery Method is Known*



DEATH

Male Decedents 100 Years and Older: 78

Female Decedents 100 Years and Older: 423

Most Deaths Occurred on: December 24, 1994 (204)

Fewest Deaths Occurred on: August 11, 1994 (107)

Month Most Suicides Occurred: October and December (53 each)

Month Most Homicides Occurred: March (26)

Month Most Motor Vehicle Deaths Occurred: December (60)

Weekday Most Deaths Occurred: Saturday (8,099)

Weekday Fewest Deaths Occurred: Thursday (7,671)

MARRIAGE

Ages of Brides: 14-90 years

Ages of Grooms: 16-95 years

Most Popular Month for Marriages: October (5,856)

Least Popular Month for Marriages: January (1,491)

Most Marriages Occurred On: September 10, 1994 (1,017)

Fewest Marriages Occurred On: January 17, 1994 (3)

Greatest Age Difference When Bride Older than Groom: 41 years

Greatest Age Difference When Groom Older than Bride: 47 years

DIVORCE

Length of Marriages Involved in Divorces: < 1 Year to 65 Years of Marriage

Most Common Length of Marriage Prior to Divorce: 5 years

Month Most Divorces Granted: March (1,479)

Month Fewest Divorces Granted: May (1,097)

¹ Massachusetts General Hospital opened a birth unit in November of 1994

Figure A-1

1994 Massachusetts Daily Vital Events

Each day Massachusetts residents had approximately:

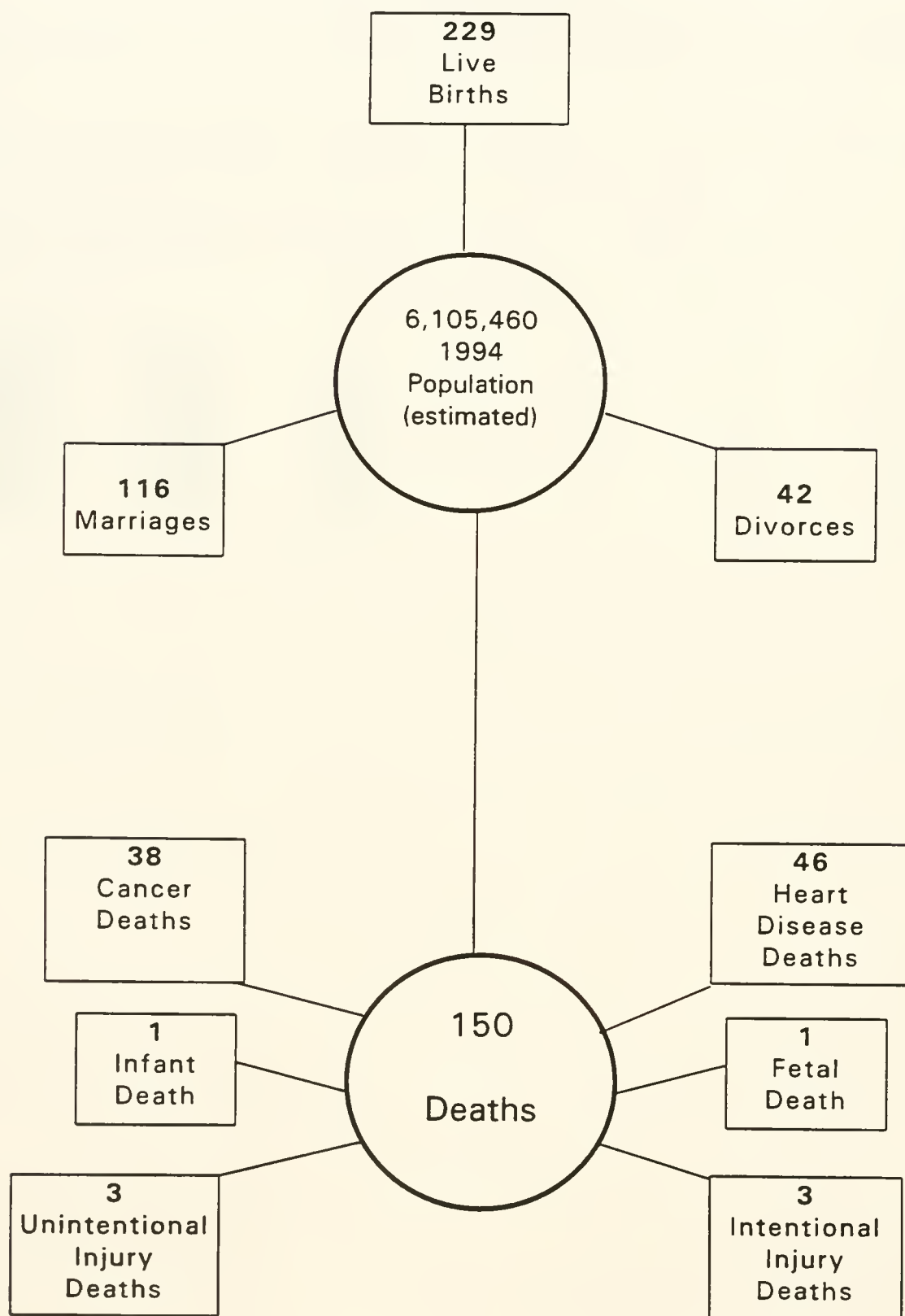


Table A-2. Number and Crude Rates of Vital Events, Massachusetts and United States: 1993-1994

Vital Event	Massachusetts				United States					
	1994		1993		1994 ¹		1993 ²			
	Number	Rate	Number	Rate	Number	Rate	Number	Rate		
						% of Rate Change		% of Rate Change		
Births	83,758	13.7	84,627	13.9	- 1.4	3,952,767	15.2	4,000,240	15.5	- 1.9
Fetal Deaths	448	5.3	517	6.1	- 13.1	NA ³	NA	NA	NA	NA
Total Deaths	54,914	899.4	55,557	913.3	- 1.5	2,278,994	875.4	2,268,553	880.0	- 0.5
Infant Deaths	499	6.0	523	6.2	- 3.2	31,710	8.0	33,300	8.3	- 3.6
Neonatal Deaths	349	4.2	375	4.4	- 4.5	20,250	5.1	21,590	5.4	- 5.6
Marriages	42,503	7.0	42,355	7.0	0.0	2,362,000	9.1	2,334,000	9.0	+ 1.1
Divorces	15,450	2.5	14,435	2.4	+ 4.2	1,191,000	4.6	1,187,000	4.6	0.0
NOTES: Neonatal and infant deaths are included in total deaths; neonatal deaths are included in infant deaths; fetal deaths are excluded from total deaths. Figures for marriages and divorces reflect occurrence, not residence. The rates for live births, marriages and divorces are per 1,000 population; rates for total deaths are per 100,000 population. Rates for infant and neonatal deaths are per 1,000 live births. Rates for fetal deaths are per 1,000 live births and fetal deaths.										
¹ United States numbers and rates for 1994 Marriages and Divorces are provisional; all others are final. ² United States numbers and rates for 1993 Births and Total Deaths are final; all others are provisional. ³ Not Available.										

Figure A-2

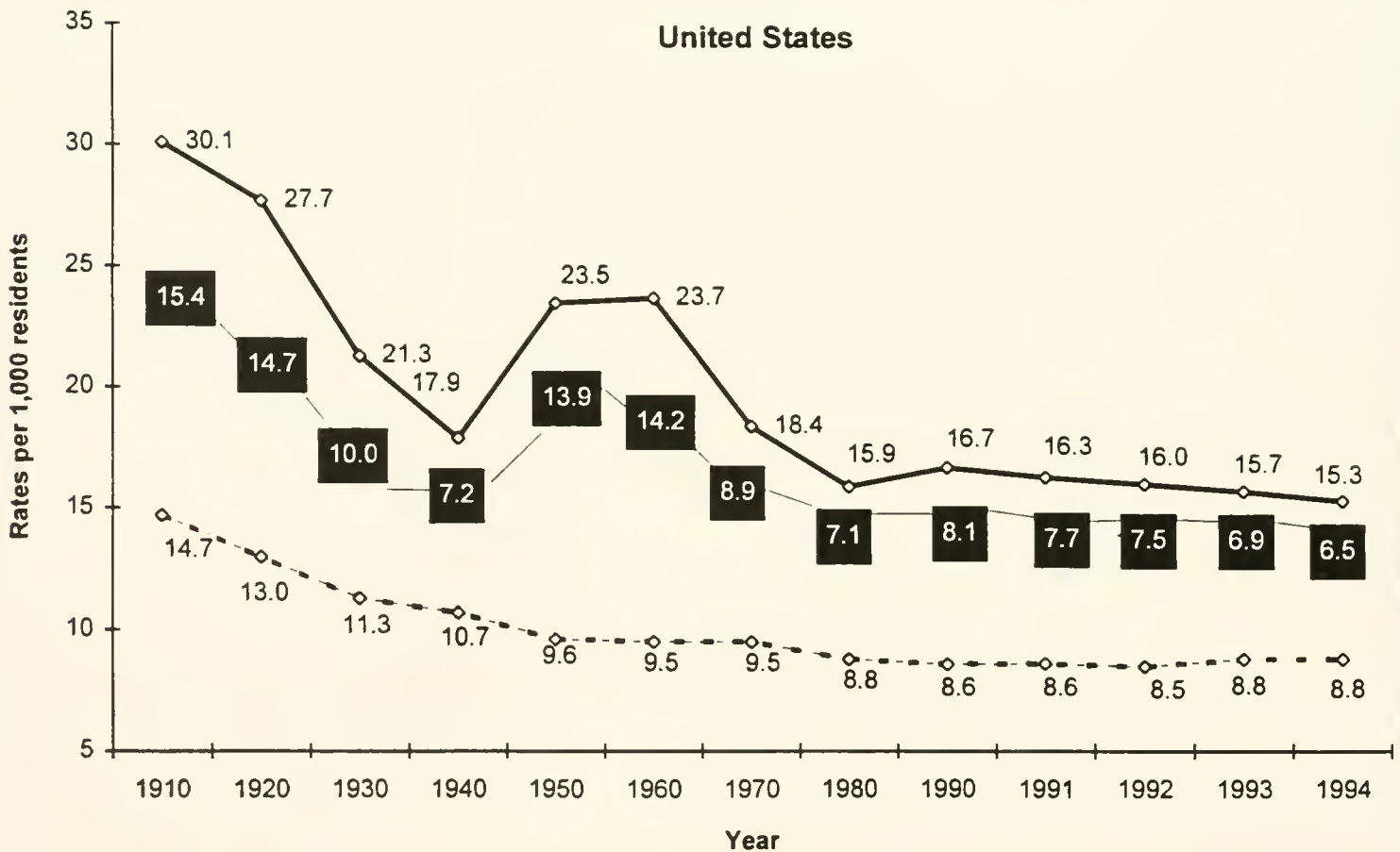
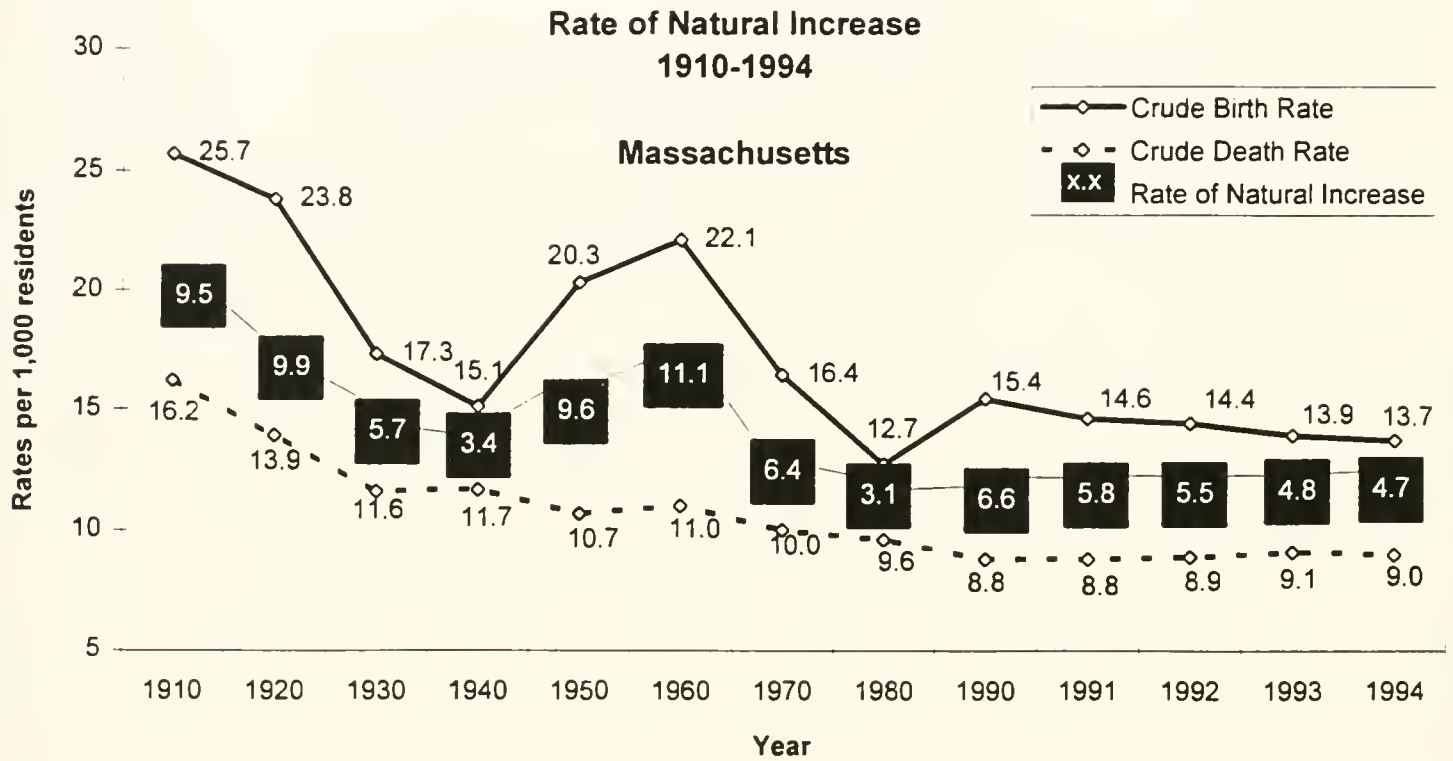


Table A-3. Massachusetts Resident Births and Deaths With Resultant Natural Increase

Massachusetts: 1900-1994

Year	Births	Deaths	Natural Increase	Rate/1,000 Residents
1900	73,386	51,156	22,230	7.9
1905	75,022	50,486	24,536	8.2
1910	86,539	54,407	32,132	9.5
1915	93,155	53,131	40,024	10.8
1920	91,859	53,632	38,227	9.9
1925	86,014	51,890	34,124	8.2
1930	73,690	49,503	24,187	5.7
1935	62,416	49,634	12,782	2.9
1940	65,369	50,698	14,671	3.4
1945	76,455	50,763	25,692	5.7
1950	95,619	50,359	45,260	9.6
1955	109,610	53,386	56,224	11.6
1960	114,018	56,560	57,458	11.2
1965	100,262	58,853	41,409	7.8
1970	93,582	56,944	36,638	6.4
1975	68,070	53,708	14,362	2.5
1980	72,591	54,934	17,657	3.1
1981	73,930	52,813	21,117	3.7
1982	75,749	52,867	22,882	4.0
1983	76,031	54,150	21,881	3.8
1984	78,197	55,189	23,008	4.0
1985	81,781	55,597	26,184	4.5
1986	82,168	55,860	26,308	4.5
1987	84,345	55,562	28,783	4.9
1988	88,047	56,407	31,640	5.4
1989	91,314	53,748	37,566	6.4
1990	92,461	53,008	39,453	6.6
1991	88,176	53,010	35,166	5.8
1992	87,202	53,804	33,398	5.5
1993	84,627	55,557	29,070	4.8
1994	83,758	54,914	28,844	4.7

Table A-4. Vital Events by Month, Massachusetts Residents: 1994

		Births	Fetal Deaths¹	Deaths	Infant Deaths²	Neonatal Deaths	Marriages	Divorces
Totals		83,758	448	54,914	499	349	42,503	15,450
January	#	6,610	40	5,334	44	30	1,491	1,436
	Rank	10	5	1	4	3	12	3
February	#	6,328	43	4,545	43	27	1,680	1,171
	Rank	11	4	5	6	7	11	10
March	#	7,146	44	4,856	45	29	1,728	1,479
	Rank	5	3	3	3	5	10	1
April	#	7,040	27	4,349	36	25	3,073	1,310
	Rank	7	12	9	9	10	7	6
May	#	7,375	30	4,504	50	35	4,536	1,097
	Rank	3	11	6	2	2	5	12
June	#	7,227	36	4,233	32	27	4,998	1,163
	Rank	4	6	12	12	7	3	11
July	#	7,619	36	4,382	55	43	4,197	1,216
	Rank	1	6	8	1	1	6	8
August	#	7,395	46	4,262	39	30	4,566	1,459
	Rank	2	1	11	8	3	4	2
September	#	6,982	45	4,313	40	27	5,426	1,333
	Rank	8	2	10	7	7	2	5
October	#	7,069	35	4,673	36	24	5,856	1,195
	Rank	6	8	4	9	11	1	9
November	#	6,328	35	4,482	35	28	2,648	1,237
	Rank	11	8	7	11	6	8	7
December	#	6,639	31	4,981	44	24	2,304	1,354
	Rank	9	10	2	4	11	9	4

¹ Fetal deaths are not included in Births or Deaths. ² Infant deaths and neonatal deaths are included in total resident deaths; neonatal deaths are included in infant deaths.

TABLE A-4A
VITAL EVENTS BY COMMUNITY
1994

COMMUNITY	POPULATION (1)	LIVE BIRTHS OCCURRENCE; RESIDENT	DEATHS OCCURRENCE; RESIDENT	INFANT DEATHS TOTAL (2)	DEATHS OCCURRENCE; RESIDENT	MARRIAGES LICENSES ISSUED (3)	MARRIAGES OCCURRENCE (4)	RESIDENT NATURAL INCREASE
STATE TOTAL	6,105,460	84,895	55,630	499	54,914	42,503	42,503	28,844
ABINGTON	13,732	0	86	0	144	104	107	78
ACTON	18,372	0	74	0	90	120	81	174
ACUSHNET	9,596	1	28	0	82	53	43	2
ADAMS	9,457	1	27	0	113	63	60	-22
AGAWAM	27,885	0	251	1	268	246	259	53
ALFORD	4,430	0	3	0	7	3	2	-3
AMESBURY	15,467	1	88	3	160	111	82	89
AMHERST	34,471	3	67	1	115	169	178	66
ANDOVER	29,034	0	123	2	203	202	282	144
ARLINGTON	43,796	5	334	1	478	322	199	73
ASHBURNHAM	5,903	0	10	0	26	12	23	36
ASHBY	3,226	1	3	1	17	8	12	16
ASHFIELD	1,836	0	0	0	3	8	9	16
ASHLAND	12,938	0	22	1	85	78	66	143
ATHOL	11,645	2	149	2	137	71	63	-7
ATTLEBORO	37,747	921	440	4	332	334	289	346
AUBURN	14,906	0	38	1	136	135	123	36
AVON	4,761	0	10	0	40	37	36	12
AYER	6,895	1	170	2	66	118	61	52
BARNSTABLE	43,928	1,117	923	4	493	359	495	35
BARRE	4,965	0	5	0	33	30	26	24
BECKET	1,919	0	3	0	9	5	8	10
BEDFORD	13,204	0	193	1	131	101	105	95
BELCHERTOWN	11,772	0	42	0	91	58	41	98
BELLINGHAM	15,501	1	18	1	75	147	99	165
BELMONT	24,427	1	102	0	249	188	181	62
BERKLEY	4,619	0	6	1	31	21	13	60
BERLIN	2,330	0	3	0	14	15	12	16
BERNARDSTON	2,091	0	4	0	16	16	22	-2
BEVERLY	38,004	2,594	696	4	414	278	269	81
BILLERICA	39,192	0	70	2	218	251	198	377
BLACKSTONE	8,422	0	19	0	55	59	37	68

(1) POPULATION DATA ARE INTERPOLATIONS OF THE 1990 U.S. CENSUS AND MISER 1995 ESTIMATES

(2) INFANT AND NEONATAL DEATHS ARE INCLUDED IN TOTAL RESIDENT DEATHS.

(3) MARRIAGE INTENTIONS MAY BE FILED IN ANY MASSACHUSETTS COMMUNITY, REGARDLESS OF WHERE THE BRIDE AND GROOM RESIDE OR WHERE THE MARRIAGE CEREMONY OCCURS.

(4) MARRIAGE FIGURES REFLECT OCCURRENCE, NOT RESIDENCE.

TABLE A-4A
VITAL EVENTS BY COMMUNITY
1994

COMMUNITY	POPULATION (1)	LIVE BIRTHS		DEATHS		INFANT DEATHS		MARRIAGES		RESIDENT NATURAL INCREASE
		OCCURRENCE	RESIDENT	OCCURRENCE	RESIDENT	TOTAL	NEONATAL (2)	LICENSES ISSUED (3)	OCCURRENCE (4)	
STATE TOTAL	6,105,460	84,895	83,758	55,630	54,914	499	349	42,503	42,503	28,844
BLANDFORD	1,316	0	10	0	6	0	0	4	2	4
BOLTON	3,326	0	55	4	12	0	0	13	20	43
BOSTON	590,057	19,678	8,450	8,425	4,927	77	53	3,883	4,086	3,523
BOURNE	17,561	2	218	122	179	4	0	96	124	39
BOXBOROUGH	3,547	0	81	4	10	0	0	11	21	71
BOXFORD	6,893	0	93	4	27	0	0	21	13	66
BOYLSTON	3,629	2	59	22	33	3	3	15	29	26
BRAINTREE	34,753	1	386	438	382	1	1	236	210	4
BREWSTER	9,757	2	89	84	109	0	0	61	137	-20
BRIDGEWATER	21,156	0	277	38	125	1	1	112	102	152
BRIMFIELD	3,315	0	31	2	24	0	0	10	22	7
BROCKTON	90,020	1,278	1,442	1,148	855	12	8	586	543	587
BROOKFIELD	3,135	0	45	11	30	0	0	24	27	15
BROOKLINE	53,077	3	585	222	445	0	0	496	316	140
BUCKLAND	2,062	1	25	2	12	0	0	17	8	13
BURLINGTON	23,439	0	303	495	140	1	1	216	179	163
CAMBRIDGE	94,452	2,468	1,101	1,207	681	2	2	876	939	420
CANTON	19,289	0	236	80	182	0	0	156	138	54
CARLISLE	4,771	0	51	2	14	0	0	21	12	37
CARVER	12,589	0	122	23	81	1	1	51	77	41
CHARLEMONT	1,367	0	14	1	7	0	0	5	9	7
CHARLTON	10,115	0	159	36	58	2	0	55	46	101
CHATHAM	6,977	0	40	85	104	1	1	84	138	-64
CHELMSFORD	33,431	2	443	113	235	0	0	233	259	208
CHELSEA	27,008	4	617	188	358	3	1	281	224	259
CHESTER	3,676	0	34	6	23	0	0	14	20	11
CHESTER	1,328	0	21	4	12	0	0	6	5	9
CHESTERFIELD	1,423	0	15	1	4	0	0	10	9	11
CHICOPEE	57,324	3	658	242	634	3	2	397	368	24
CHILMARK	708	0	5	3	10	0	0	17	39	-5
CLARKSBURG	1,790	0	21	0	10	0	0	4	7	11
CLINTON	12,949	0	233	103	149	0	0	107	72	84

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(4) MARRIAGE FIGURES REFLECT OCCURRENCE, NOT RESIDENCE.

TABLE A-4A
VITAL EVENTS BY COMMUNITY
1994

COMMUNITY	POPULATION (1)	LIVE BIRTHS		DEATHS		INFANT DEATHS		MARRIAGES		RESIDENT NATURAL INCREASE
		OCCURRENCE :	RESIDENT :	OCCURRENCE :	RESIDENT :	TOTAL :	NEONATAL :	LICENSES : OCCURRENCE	ISSUED :	
STATE TOTAL	6,105,460	84,895	83,758	55,630	54,914	499	349	42,503	42,503	28,844
COHASSET	7,608	0	92	34	56	1	0	57	113	36
COLRAIN	1,832	0	14	3	20	0	0	14	19	-6
CONCORD	17,775	1,586	169	323	158	0	0	108	150	11
CONWAY	1,658	0	23	5	12	0	0	5	9	11
CUMMINGTON	6,901	0	5	3	5	0	0	4	34	0
DALTON	24,640	1	62	33	77	0	0	30	39	-15
DANVERS	27,629	3	279	259	290	2	1	206	310	-11
DARTMOUTH	23,988	0	307	88	245	1	1	145	168	-8
DEERFIELD	5,141	0	47	6	216	0	0	304	200	91
DENNIS	15,095	0	118	126	224	0	0	33	48	24
DIGHTON	5,796	1	66	14	44	0	0	95	92	-106
DOUGLAS	5,660	0	90	12	35	0	0	24	34	22
DOVER	5,201	0	75	10	37	0	0	34	29	55
DRACUT	27,577	0	428	41	186	4	3	181	138	38
DUDLEY	9,652	1	129	23	79	0	0	52	51	242
DUNSTABLE	2,492	0	43	4	13	0	0	18	8	50
DUXBURY	14,638	0	160	63	98	0	0	100	133	30
EAST BRIDGEWATER	11,048	0	176	46	117	3	1	86	125	62
EAST BROOKFIELD	1,998	0	30	4	13	0	0	10	12	17
EAST LONGMEADOW	13,438	0	164	177	155	2	2	135	97	-11
EASTHAM	5,128	0	31	13	42	1	1	23	29	-11
EASTHAMPTON	16,113	1	199	42	151	1	0	124	99	48
EASTON	20,319	0	305	48	130	2	2	159	185	175
EDGARTOWN	3,475	0	44	17	28	0	0	89	171	16
EGREMONT	1,354	0	9	5	12	0	0	6	8	-3
ERVING	1,506	0	13	2	10	0	0	5	8	3
ESSEX	3,224	0	52	8	33	0	0	16	20	19
EVERETT	35,186	1	538	532	431	1	1	314	223	107
FAIRHAVEN	16,002	0	164	138	235	2	1	111	105	-71
FALL RIVER	90,054	1,787	1,255	1,470	1,130	12	4	673	590	125
FALMOUTH	29,387	666	308	443	330	0	0	243	332	-22

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(4) MARRIAGE FIGURES REFLECT OCCURRENCE, NOT RESIDENCE.

TABLE A-4A
VITAL EVENTS BY COMMUNITY
1994

COMMUNITY	POPULATION (1)	LIVE BIRTHS		DEATHS		INFANT DEATHS		MARRIAGES		RESIDENT NATURAL INCREASE
		OCCURRENCE :	RESIDENT :	OCCURRENCE :	RESIDENT :	TOTAL :	NEONATAL (2)	LICENSES : ISSUED :	OCCURRENCE (4)	
STATE TOTAL	6,105,460	84,895	83,758	55,630	54,914	499	349	42,503	42,503	28,844
FITCHBURG	40,376	769	565	459	392	3	1	232	216	173
FLORIDA	758	0	8	3	8	0	0	2	0	0
FOXBOROUGH	15,524	0	225	35	105	0	0	94	110	129
FRAMINGHAM	66,592	2,269	929	601	514	9	5	495	360	415
FRANKLIN	23,434	2	506	55	147	3	2	164	123	359
FREETOWN	8,956	0	90	13	45	0	0	50	150	45
GARDNER	20,123	354	265	311	232	4	3	150	133	33
GAY HEAD	225	1	1	1	3	0	0	1	21	-2
GEORGETOWN	6,664	0	99	16	53	2	2	34	43	46
GILL	1,602	0	19	2	6	0	0	6	8	13
GLOUCESTER	29,733	208	355	347	322	2	2	172	255	33
GOSHEN	1,010	1	8	1	4	0	0	0	9	4
GOSNOLD	70	0	1	1	2	0	0	0	6	-1
GRAFTON	13,123	2	203	49	107	0	0	98	88	96
GRANBY	5,860	1	76	8	39	1	1	30	28	37
GRANVILLE	1,576	0	15	0	9	0	0	2	4	6
GREAT BARRINGTON	7,540	184	71	224	132	0	0	97	77	-61
GREENFIELD	18,347	642	228	371	196	1	0	171	108	32
GROTON	8,278	1	124	13	35	0	0	39	166	89
GROVELAND	5,308	0	84	14	46	0	0	24	19	38
HADLEY	4,188	0	34	5	33	0	0	28	22	1
HALIFAX	6,833	1	103	13	59	0	0	21	35	44
HAMILTON	7,494	0	100	18	39	0	0	32	67	61
HAMPDEN	4,981	0	49	49	50	0	0	24	30	-1
HANCOCK	615	0	7	2	4	0	0	1	4	3
HANOVER	11,879	0	139	21	93	0	0	67	85	46
HANSON	9,296	0	143	12	55	2	1	64	66	83
HARDWICK	2,565	0	34	7	20	1	0	30	16	14
HARVARD	13,019	0	164	10	20	0	0	27	38	144
HARNICH	11,108	2	112	86	170	0	0	99	142	-58
HATFIELD	3,313	0	38	6	30	0	0	11	13	8
HAVERHILL	52,718	656	859	609	519	4	2	355	376	340

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TABLE A-4A
VITAL EVENTS BY COMMUNITY
1994

COMMUNITY	POPULATION (1)	LIVE BIRTHS OCCURRENCE : RESIDENT	DEATHS OCCURRENCE : RESIDENT	INFANT DEATHS TOTAL : NEONATAL (2)	MARRIAGES LICENSES : OCCURRENCE ISSUED : (3) : (4)	RESIDENT NATURAL INCREASE
STATE TOTAL	6,105,460	84,895 : 83,758	55,630 : 54,914	499 : 349	42,503 : 42,503	28,844
HAWLEY	380	0	0	0	2	4
HEATH	703	0	2	0	9	7
HINGHAM	19,519	0	75	1	163	223
HINSDALE	2,056	0	24	0	4	7
HOLBROOK	11,582	0	18	1	78	52
HOLDEN	14,632	2	70	1	74	79
HOLLAND	2,464	0	7	1	3	7
HOLLISTON	13,633	0	24	1	67	89
HOLYOKE	41,223	1,255	881	9	248	295
HOPEDALE	5,384	1	42	0	21	35
HOPKINTON	10,209	0	8	2	78	47
HUBBARDSTON	2,870	0	4	2	14	8
HUDSON	18,350	1	43	3	122	86
HULL	10,058	0	31	1	80	45
HUNTINGTON	2,076	0	5	0	9	11
IPSWICH	12,416	0	53	0	110	169
KINGSTON	9,265	0	67	0	72	61
LAKEVILLE	8,537	1	49	0	43	58
LANCASTER	6,642	0	24	0	17	39
LANESBOROUGH	3,280	0	20	0	8	16
LAWRENCE	65,397	1,745	605	10	429	464
LEE	5,903	1	34	0	58	53
LEICESTER	10,352	0	18	2	62	67
LENOX	5,123	0	78	0	55	115
LEOMINSTER	38,477	1,227	308	5	335	278
LEVERETT	1,867	0	1	1	5	12
LEXINGTON	29,296	3	234	1	180	195
LEYDEN	780	0	1	0	5	4
LINCOLN	8,096	0	7	0	39	86
LITTLETON	7,468	1	44	1	51	73
LONGMEADOW	15,625	0	70	1	94	64
LOWELL	101,489	2,769	1,344	12	617	561

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(4) MARRIAGE FIGURES REFLECT OCCURRENCE, NOT RESIDENCE.

TABLE A-4A
VITAL EVENTS BY COMMUNITY
1994

COMMUNITY	POPULATION (1)	LIVE BIRTHS		DEATHS		INFANT DEATHS		MARRIAGES		RESIDENT NATURAL INCREASE
		OCCURRENCE	RESIDENT	OCCURRENCE	RESIDENT	TOTAL	NEONATAL (2)	LICENSES ISSUED (3)	OCCURRENCE (4)	
STATE TOTAL	6,105,460	84,895	83,758	55,630	54,914	499	349	42,503	42,503	28,844
LUDLOW	19,415	0	175	117	149	1	1	144	129	26
LUNENBURG	9,289	0	106	16	65	0	0	44	67	41
LYNN	78,791	13	1,418	812	859	15	11	565	503	559
LYNNFIELD	11,352	0	113	23	81	0	0	70	115	32
MALDEN	53,601	1,005	769	420	510	2	1	326	321	259
MANCHESTER	5,438	0	54	18	44	0	0	32	47	10
MANSFIELD	16,957	0	413	22	86	0	0	132	85	327
MARBLEHEAD	19,820	0	246	82	177	1	1	139	148	69
MARION	4,583	0	41	61	63	0	0	28	39	-22
MARLBOROUGH	33,184	1	595	325	274	4	4	257	167	321
MARSHFIELD	22,266	0	368	44	140	2	1	169	172	228
MASHPEE	9,387	1	137	18	64	1	0	65	140	73
MATTAPOISETT	6,054	0	71	14	48	1	1	46	54	23
MAYNARD	10,765	0	163	16	80	1	1	67	56	83
MEDFIELD	11,160	0	165	18	57	0	0	37	25	108
MEDFORD	56,466	0	635	435	598	0	0	360	350	37
MEDWAY	10,604	1	195	42	73	0	0	60	54	122
MELROSE	28,041	1,360	358	451	304	2	2	193	160	54
MENDON	4,250	0	62	9	33	0	0	19	32	29
MERRIMAC	5,434	0	84	6	25	0	0	33	18	59
METHUEN	41,401	940	554	591	412	4	2	244	192	142
MIDDLEBOROUGH	18,232	0	280	111	161	1	1	133	104	119
MIDDLEFIELD	514	0	4	0	1	0	0	3	2	3
MIDDLETON	5,440	0	78	17	33	0	0	35	35	45
MILFORD	25,447	488	356	425	208	1	1	200	165	148
MILLBURY	12,173	0	157	64	130	0	0	78	52	27
MILLIS	8,063	0	153	13	54	1	0	51	94	99
MILLVILLE	2,446	0	50	6	21	0	0	13	17	29
MILTON	26,043	0	281	293	274	1	1	158	167	7
MONROE	111	0	0	0	2	0	0	0	0	-2
MONSON	8,116	0	103	17	64	0	0	49	51	39
MONTAGUE	8,305	1	101	30	92	1	1	37	32	9

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TABLE A-4A
VITAL EVENTS BY COMMUNITY
1994

COMMUNITY	POPULATION (1)	LIVE BIRTHS : OCCURRENCE : : RESIDENT :	DEATHS : OCCURRENCE : : RESIDENT :	INFANT DEATHS : TOTAL : : NEONATAL (2) :	MARRIAGES : LICENSES : : ISSUED : : (3) : : (4) :	RESIDENT NATURAL INCREASE
STATE TOTAL	6,105,460	84,895 : 83,758	55,630 : 54,914	499 : 349	42,503 : 42,503	28,844
MONTEREY	1,069	3	2	0	7	7
MONTGOMERY	815	0	4	0	1	4
MOUNT WASHINGTON	127	0	0	0	3	2
NAHANT	3,901	0	33	0	79	-3
NANTUCKET	6,927	81	65	1	176	22
NATICK	31,252	752	329	0	254	233
NEEDHAM	28,140	0	251	0	211	83
NEW ASHFORD	181	0	0	0	0	2
NEW BEDFORD	97,004	1,760	1,252	12	601	363
NEW BRAINTREE	1,877	0	1	0	5	5
NEW MARLBOROUGH	1,455	0	2	0	6	9
NEW SALEM	6,121	0	7	0	1	-2
NEWBURY	17,015	1	344	0	38	32
NEWBURYPORT	83,251	891	613	0	159	45
NEWTON	10,180	0	92	1	628	260
NORFOLK	16,418	390	259	2	49	113
NORTH ADAMS	23,861	0	117	1	59	-13
NORTH ANDOVER	25,115	4	78	1	104	125
NORTH ATTLEBORO	4,755	0	30	0	147	209
NORTH BROOKFIELD	12,693	0	84	0	192	22
NORTH READING	29,054	1,010	574	0	62	103
NORTHAMPTON	12,195	0	47	0	239	-31
NORTHBOROUGH	13,355	3	111	2	74	97
NORTHBRIIDGE	2,838	0	5	0	79	36
NORTHFIELD	14,627	0	46	0	12	-5
NORTON	9,266	0	87	0	95	191
NORWELL	29,213	0	89	0	54	23
NORWOOD	2,821	1,109	577	3	249	90
OAK BLUFFS	1,645	0	72	0	58	2
OAKHAM	7,769	0	11	0	4	12
ORANGE	6,651	0	17	1	3	24
ORLEANS		0	30	1	80	-53

(1) POPULATION DATA ARE INTERPOLATIONS OF THE 1990 U.S. CENSUS AND MISER 1995 ESTIMATES

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(3) MARRIAGE INTENTIONS MAY BE FILED IN ANY MASSACHUSETTS COMMUNITY, REGARDLESS OF WHERE THE BRIDE AND GROOM RESIDE OR WHERE THE MARRIAGE CEREMONY OCCURS.

(4) MARRIAGE FIGURES REFLECT OCCURRENCE, NOT RESIDENCE.

TABLE A-4A
VITAL EVENTS BY COMMUNITY
1994

COMMUNITY	POPULATION (1)	LIVE BIRTHS OCCURRENCE: RESIDENT :	DEATHS OCCURRENCE: RESIDENT :	INFANT DEATHS TOTAL : NEONATAL (2) :	MARRIAGES LICENSES: OCCURRENCE ISSUED : (3) :	RESIDENT NATURAL INCREASE
STATE TOTAL	6,105,460	84,895 : 83,758	55,630 : 54,914	499 : 349	42,503: 42,503	28,844
OTIS	1,215	1	6	0	6	6
OXFORD	13,118	0	52	0	101	97
PALMER	12,527	1	115	0	83	28
PAXTON	4,203	2	5	0	14	-1
PEABODY	47,525	1	243	1	314	186
PELHAM	1,590	0	3	1	1	11
PEMBROKE	15,087	0	32	0	108	149
PEPPERELL	11,432	0	18	0	65	119
PERU	936	0	2	0	2	9
PETERSHAM	1,152	0	6	0	9	0
PHILLIPSTON	1,458	0	2	0	2	3
PITTSFIELD	47,080	1,050	744	4	406	54
PLAINFIELD	631	0	2	0	3	6
PLAINVILLE	7,100	0	9	0	71	80
PLYMOUTH	45,625	897	539	2	293	287
PLYMPTON	2,497	0	3	0	11	27
PRINCETON	3,414	0	8	0	15	35
PROVINCETOWN	3,605	1	41	0	29	-47
QUINCY	86,525	945	770	0	754	223
RANDOLPH	31,137	1	123	2	200	153
RAYNHAM	10,130	0	15	1	76	49
READING	23,024	1	74	1	150	127
REHOBOTH	9,357	1	15	0	40	41
REVERE	43,856	1	171	0	286	136
RICHMOND	1,712	2	2	0	6	4
ROCHESTER	4,421	0	5	0	24	30
ROCKLAND	15,732	0	85	0	123	111
ROCKPORT	7,556	1	46	0	68	-57
ROWE	447	0	0	0	5	3
ROWLEY	4,731	0	24	0	15	61
ROYALSTON	1,267	0	1	0	3	9
RUSSELL	1,726	0	0	2	7	10

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(4) MARRIAGE FIGURES REFLECT OCCURRENCE, NOT RESIDENCE.

TABLE A-4A
VITAL EVENTS BY COMMUNITY
1994

COMMUNITY	POPULATION (1)	LIVE BIRTHS : OCCURRENCE : : RESIDENT :	DEATHS : OCCURRENCE : : RESIDENT :	INFANT DEATHS : TOTAL : : NEONATAL (2) :	MARRIAGES : LICENSES : : ISSUED : (3) : : (4) :	RESIDENT NATURAL INCREASE
STATE TOTAL	6,105,460	84,895 : 83,758	55,630 : 54,914	499 : 349	42,503 : 42,503	28,844
RUTLAND	5,128	0	9	0	32	43
SALEM	38,571	1,997	657	1	287	166
SALISBURY	8,265	0	28	0	53	16
SANDISFIELD	905	0	2	0	7	2
SANDWICH	17,663	1	84	2	91	103
SAUGUS	25,831	0	109	2	182	29
SAVOY	25,777	0	1	0	1	7
SCITUATE	16,671	1	87	2	134	74
SEEKONK	13,254	2	40	0	164	34
SHARON	16,604	1	37	1	64	149
SHEFFIELD	2,964	0	5	1	36	23
SHELBURNE	2,123	0	25	0	13	1
SHERBORN	4,306	0	4	0	15	37
SHIRLEY	6,575	0	9	1	39	58
SHREWSBURY	24,061	0	81	1	191	177
SHUTESBURY	1,648	1	2	0	0	10
SOMERSET	17,540	0	70	0	132	-28
SOMERVILLE	71,671	3	297	8	488	362
SOUTH HADLEY	16,936	0	78	0	104	17
SOUTHAMPTON	4,933	0	18	0	23	12
SOUTHBOROUGH	6,689	0	13	0	56	89
SOUTHBRIDGE	17,182	425	260	1	159	94
SOUTHWICK	8,264	0	9	0	63	47
SPENCER	12,277	2	31	2	72	44
SPRINGFIELD	151,397	5,712	2,354	30	1,062	1,171
STERLING	7,245	0	6	0	45	57
STOCKBRIDGE	2,386	0	6	0	28	2
STONEHAM	23,006	1,169	194	1	154	67
STOUGHTON	28,355	1,294	576	1	204	75
STON	5,807	0	7	0	24	60
STURBRIDGE	8,405	0	8	1	76	17
SUDBURY	14,986	0	22	4	104	145

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(3) MARRIAGE INTENTIONS MAY BE FILED IN ANY MASSACHUSETTS COMMUNITY, REGARDLESS OF WHERE THE BRIDE AND GROOM RESIDE OR WHERE THE MARRIAGE CEREMONY OCCURS.

(4) MARRIAGE FIGURES REFLECT OCCURRENCE, NOT RESIDENCE.

TABLE A-4A
VITAL EVENTS BY COMMUNITY
1994

COMMUNITY	POPULATION (1)	LIVE BIRTHS OCCURRENCE: RESIDENT	DEATHS OCCURRENCE: RESIDENT	INFANT DEATHS TOTAL (2)	NEONATAL (2)	MARRIAGES LICENSES: OCCURRENCE ISSUED: (3)	RESIDENT NATURAL INCREASE
STATE TOTAL	6,105,460	84,895 ; 83,758	55,630 ; 54,914	499 ; 349	349	42,503 ; 42,503	28,844
SUNDERLAND	3,394	0	18	0	0	18	32
SUTTON	7,383	0	13	2	2	29	37
SWAMPSCOTT	13,404	0	59	0	0	66	-4
SWANSEA	15,738	0	54	0	0	79	7
TAUNTON	49,206	689	588	8	6	130	305
TEMPLETON	6,660	0	51	0	0	409	29
TEWKSBURY	28,375	4	32	1	1	57	255
TISBURY	3,623	1	151	0	0	140	-1
TOLLAND	318	0	9	0	0	48	-1
TOPSFIELD	5,777	0	0	0	0	1	1
TOWNSEND	9,926	0	6	0	0	43	28
TRURO	1,613	0	16	1	0	34	62
TYNGSBOROUGH	9,765	0	7	0	0	47	3
TYRINGHAM	412	1	10	1	1	21	102
UPTON	4,903	0	2	0	0	52	0
UXBRIDGE	10,467	0	11	0	0	5	70
WAKEFIELD	25,556	0	15	2	2	35	103
MALES	1,833	1	131	1	0	75	92
WALPOLE	21,605	0	0	0	0	164	22
WALTHAM	58,378	386	60	0	1	8	160
WARE	10,169	272	494	2	2	127	256
WAREHAM	20,750	415	90	1	0	425	28
WARREN	4,548	2	274	2	1	57	49
WARNICK	719	0	12	0	0	106	34
WASHINGTON	658	0	39	0	0	17	2
WATERTOWN	32,801	4	6	0	0	5	4
WAYLAND	12,420	4	10	0	0	2	112
WEBSTER	16,185	1	141	2	1	198	60
WELLESLEY	27,035	0	44	1	1	47	23
WELLFLEET	2,807	1	214	2	2	118	127
WENDELL	1,015	0	88	1	1	126	-8
WENHAM	4,269	0	1	0	0	38	3
		0	7	0	0	2	15
						21	

(1) POPULATION DATA ARE INTERPOLATIONS OF THE 1990 U.S. CENSUS AND MISER 1995 ESTIMATES

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(4) MARRIAGE FIGURES REFLECT OCCURRENCE, NOT RESIDENCE.

TABLE A-4A
VITAL EVENTS BY COMMUNITY
1994

COMMUNITY	POPULATION (1)	LIVE BIRTHS OCCURRENCE: RESIDENT	DEATHS OCCURRENCE: RESIDENT	INFANT DEATHS TOTAL (2)	MARRIAGES LICENSES: OCCURRENCE ISSUED: (3) (4)	RESIDENT NATURAL INCREASE
STATE TOTAL	6,105,460	84,895 ; 83,758	55,630 ; 54,914	499 ; 349	42,503 ; 42,503	28,844
WEST BOYLSTON	6,539	0	36	3	39	13
WEST BRIDGEWATER	6,495	0	13	0	55	-16
WEST BROOKFIELD	3,852	0	44	0	17	2
WEST NEWBURY	3,702	0	6	1	16	23
WEST SPRINGFIELD	27,327	0	101	3	182	66
WEST STOCKBRIDGE	1,486	0	0	0	5	4
WEST TISBURY	1,723	2	1	0	22	14
WESTBOROUGH	14,014	1	116	4	134	61
WESTFIELD	38,998	2	365	3	265	154
WESTFORD	17,637	0	62	1	84	216
WESTHAMPTON	1,440	1	2	0	5	7
WESTMINSTER	6,455	2	11	0	34	17
WESTON	10,558	0	75	0	54	17
WESTPORT	14,355	0	30	0	86	50
WESTWOOD	12,843	1	46	2	66	39
WEYMOUTH	56,456	2,709	854	6	359	215
WHATELY	1,484	1	5	0	4	0
WHITMAN	13,055	0	28	1	108	107
WILBRAHAM	12,958	0	80	4	87	-15
WILLIAMSBURG	2,736	0	10	0	12	7
WILLIAMSTOWN	7,997	0	145	0	48	-51
WILMINGTON	18,361	0	133	2	107	133
WINCHENDON	9,235	0	16	0	55	42
WINCHESTER	20,140	2,202	409	0	120	72
WINDSOR	808	0	1	0	1	8
WINTHROP	18,339	0	162	1	139	-29
WOBBURN	37,803	1	131	0	312	200
WORCESTER	165,152	6,380	3,314	30	1,206	533
WORTHINGTON	1,504	0	1	0	10	4
WRENTHAM	9,860	0	75	0	44	66
YARMOUTH	22,045	0	178	3	143	-112

- (1) POPULATION DATA ARE INTERPOLATIONS OF THE 1990 U.S. CENSUS AND MISER 1995 ESTIMATES
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- (4) MARRIAGE FIGURES REFLECT OCCURRENCE, NOT RESIDENCE.

TABLE A-4B
VITAL EVENTS BY COUNTY
1994

COUNTY	POPULATION (1)	LIVE BIRTHS OCCURRENCE ; RESIDENT ;	DEATHS OCCURRENCE ; RESIDENT ;	INFANT DEATHS TOTAL ; NEONATAL (2)	MARRIAGES (3)	DIVORCES (3)	RESIDENT NATURAL INCREASE
STATE TOTAL	6,105,460	84,895 ; 83,758 ;	55,630 ; 54,914 ;	499 ; 349 ;	42,503	15,450	28,844
BARNSTABLE	202,712	1,792	2,258	17	2,093	610	-228
BERKSHIRE	139,388	1,632	1,636	6	1,072	502	-15
BRISTOL	504,001	5,169	4,455	42	3,564	1,707	2,244
DUKES	12,645	122	104	0	388	49	24
ESSEX	675,197	9,050	6,075	55	4,952	1,850	3,381
FRANKLIN	72,005	646	505	6	443	268	202
HAMPDEN	454,169	6,973	4,845	40	3,063	1,173	1,869
HAMPSHIRE	150,678	1,292	953	6	918	372	361
MIDDLESEX	1,419,911	20,129	11,054	82	9,251	2,775	7,892
NANTUCKET	6,927	81	65	1	303	32	23
NORFOLK	635,641	6,069	4,929	30	3,991	1,565	2,932
PLYMOUTH	439,304	2,593	3,057	32	3,072	1,541	2,626
SUFFOLK	679,260	19,683	8,946	81	4,651	841	3,890
WORCESTER	713,622	9,664	6,748	81	4,742	2,165	3,643

(1) POPULATION DATA ARE INTERPOLATIONS OF THE 1990 U.S. CENSUS AND THE MISER 1995 ESTIMATES.

(2) INFANT AND NEONATAL DEATHS ARE INCLUDED IN TOTAL RESIDENT DEATHS.

(3) MARRIAGE AND DIVORCE FIGURES REFLECT OCCURRENCE, NOT RESIDENCE.

BIRTHS

SECTION B

BIRTHS

There were 83,758 live births to Massachusetts residents in 1994, a 1.0% decrease from the 84,627 resident live births in 1993. Live births to Massachusetts residents include all births to Massachusetts residents, regardless of the state in which they occurred. Most data presented in this section are resident data. Table B-10 presents births by hospital/birthing center of occurrence.

OCCURRENCE BIRTHS

In 1994, 84,895 births occurred in Massachusetts. All but 296 births occurred at the 59 hospitals with maternity units or birthing centers in this state. The number of babies delivered at these hospitals/birthing centers ranged from 37 at Massachusetts General Hospital¹ in Boston to 8,727 at Brigham and Women's Hospital in Boston. The median number of births per facility was 1,006, a decrease from the median number of 1,109 in 1993. The four hospitals with the greatest numbers of births -- Brigham and Women's (8,727), Baystate Medical Center (5,702), Beth Israel (5,425), and Newton-Wellesley Hospital (4,128) -- represented 28.2% of all births occurring in Massachusetts. The distribution of Massachusetts births by hospital size is presented below.

**1994 DISTRIBUTION OF MASSACHUSETTS
OCCURRENCE BIRTHS BY HOSPITAL**

NUMBER OF BIRTHS AT HOSPITAL	NUMBER OF HOSPITALS IN CATEGORY	TOTAL NUMBER OF BIRTHS IN CATEGORY	% OF TOTAL BIRTHS
< 500	16	3,954	4.7
500-999	12	9,523	11.2
1000-1499	11	12,712	15.0
1500-1999	8	13,967	16.4
≥ 2000	12	44,443	52.4
ALL OTHER ²		296	0.3
TOTAL	59	84,895	100.0

¹ Massachusetts General Hospital opened a birth unit in November of 1994.

² Includes hospitals without maternity units, home births, births en route to hospital and births occurring in a doctor's office/clinic.

BIRTHS BY RACE/ETHNICITY

There are a number of points to keep in mind when analyzing 1994 data by race/ethnicity. Since June 1986, information on both race and ethnicity rather than just race has been collected. This provides improved data, particularly for Hispanic births. Presented for comparison below are resident birth data for calendar years 1993 and 1994, utilizing maternal race and Hispanic ethnicity information:

RACE AND HISPANIC ETHNICITY OF MOTHER 1993 - 1994

MATERNAL RACE/ETHNICITY	1994		1993		+ OR -
	TOTAL BIRTHS	% OF BIRTHS	TOTAL BIRTHS	% OF BIRTHS	
White non-Hispanic	64,576	77.1	65,471	77.4	- 895
Black non-Hispanic	6,258	7.5	6,417	7.6	- 159
Hispanic	8,429	10.1	8,250	9.7	+ 179
Asian	3,382	4.0	3,334	3.9	+ 48
Other ³	949	1.1	983	1.2	- 34
Unknown ⁴	164	0.2	172	0.2	- 8
TOTAL	83,758	100.0	84,627	100.0	- 869

The final point which must be considered is the method used to present data by race/ethnicity. Massachusetts follows the recommendation from the National Center for Health Statistics (NCHS) for classifying race/ethnicity on the birth certificate according to the self-reported race/ethnicity of the mother. Beginning with 1989 births, birth data are presented by race/ethnicity of the mother only.

TEEN BIRTHS

For the fifth consecutive year, the number of births to mothers between the ages of 15 and 19 decreased -- from 6,469 in 1993 to 6,412 in 1994. However, the percentage of all Massachusetts resident births to mothers in this age group again increased slightly -- from 7.6% in 1993 to 7.7% in 1994. The age-specific birth rate decreased from 31.5 to 31.2.

³ Other races include American Indian, Hawaiian, and Other.

⁴ Unknown race: mothers did not indicate a race/ethnicity.

BIRTHS BY MARITAL STATUS

The proportion of unmarried mothers increased from 26.4% of all resident births in 1993 to 26.6% of all resident births in 1994. Over 89% of the mothers under the age of 20 were unmarried, while 21.3% of the mothers aged 20 or older were unmarried.

BIRTHS BY AGE OF MOTHER

Excluding mothers whose age was unknown, the largest percentage increase in births between the years 1993 and 1994 (4.9%) were to mothers in the 35-39 age group, as shown below:

AGE OF MOTHER	NUMBER OF BIRTHS 1994	NUMBER OF BIRTHS 1993	DIFFERENCE IN THE NO. OF BIRTHS 1993-1994	PERCENTAGE CHANGE 1993-1994
< 20	6,567	6,607	- 40	- 0.6
20-24	13,849	14,678	- 829	- 5.6
25-29	24,068	24,899	- 831	- 3.3
30-34	26,168	25,864	+ 304	+ 1.2
35-39	11,249	10,728	+ 521	+ 4.9
40-44	1,797	1,775	+ 22	+ 1.2
≥ 45	60	69	- 9	- 13.0

BIRTHS BY CAESAREAN SECTION

The number of Caesarean section deliveries to Massachusetts residents decreased from 18,460 in 1993 to 17,289 in 1994. The C-section rate per 1,000 live births decreased from 218.1 in 1993 to 206.4 in 1994. The lowest rate of C-sections (when the mother's age was known) was for mothers less than the age of 15 (96.8 per 1,000 live births), and the highest rate was for women aged 40 and over (313.4 per 1,000 live births).

HOSPITAL PROFILES

The following is a synopsis of the data presented in Table B-10, Occurrence and Caesarean Births by Licensed Maternity Facility:

- In 1994, 84,895 births occurred in Massachusetts, a decrease of about 10% since 1990. Caesarean section was the method of delivery for 20.7% of 1994 births. (Calculations are based on births with known method of delivery.)

- In 1994, four hospitals showed a percentage of 10% or higher for low birthweight deliveries. These hospitals were: Boston City, Brigham and Women's, Medical Center of Central Massachusetts--Worcester and New England Medical Center.
- In four hospitals, 50% or more of the deliveries were paid with public funds: Boston City, Cambridge, Holyoke and Providence. In five hospitals, less than 10% of deliveries were paid with public funds: Emerson, Newton-Wellesley, Norwood, South Shore and Winchester.
- In 1994, 27 of the 59 licensed maternity facilities exceeded the state-wide average (84.3%) for adequacy of prenatal care for their patients. However, one maternity facility had less than 60% of its patients receiving adequate prenatal care: Boston City.
- Statewide, the lowest rates of Caesarean section deliveries were at the following hospitals: Cambridge (11.6%) and Burbank (11.4%).
- In 1994, no hospital reported Caesarean section as the method of delivery for 30% or more of its births. This contrasts with two hospitals in 1993, four in 1992, three in 1991, and six in 1990.

LOW BIRTHWEIGHT INFANTS

The percentage of low birthweight infants (less than 2,500 grams or five pounds eight ounces) increased from 6.1% in 1993 to 6.4% in 1994. The actual number of low birthweight deliveries also increased from 5,202 births in 1993 to 5,335 births in 1994. The percent of low birthweight babies born to mothers under the age of 20 increased from 11.0% in 1993 to 11.2% in 1994.

DEFINITIONS IMPORTANT FOR THIS SECTION INCLUDE:

ADEQUACY OF PRENATAL CARE

The Index of Adequacy of Prenatal Care (based on the Kessner Index) has five categories (adequate, intermediate, inadequate, no prenatal care, and unknown), based on the trimester in which prenatal care began and the number of prenatal visits. The general classification scheme is as follows:

CATEGORY	TRIMESTER CARE BEGAN	# OF VISITS
Adequate	1	9 or more
Intermediate	1	5-8
	2	5 or more
Inadequate	1	1-4
	2	1-4
	3	1 or more
No prenatal care	--	0
Unknown	Unknown	Unknown

This classification is adjusted for gestational age to allow for proper classification of premature births.

BIRTHWEIGHT

The weight of an infant recorded at the time of delivery. It may be recorded in either pounds/ounces or grams. If recorded in pounds/ounces, it is converted to grams for use in this report.

1 pound = 453.6 grams

1,000 grams = 2 pounds, 3 ounces

BIRTHWEIGHT CATEGORIES

Normal birthweight (NBW): An infant's weight of 2,500 grams (5.5 pounds) or more recorded at birth.

Low birthweight (LBW): An infant's weight of less than 2,500 grams (5.5 pounds) recorded at birth.

Very low birthweight (VLBW): An infant's weight of less than 1,500 grams (3.3 pounds) recorded at birth.

CAESAREAN SECTION or C-SECTION

Primary: A mother's first Caesarean section delivery.

Repeat: A Caesarean delivery that has been preceded by at least one Caesarean delivery.

ETHNICITY

See Race.

INFANT

A child whose age is less than one year (365 days).

LIVE BIRTH

A live birth is any infant who breathes or shows any other evidence of life (such as beating of the heart, pulsation of the umbilical cord, or definite movement of voluntary muscles) after separation from the mother's uterus, regardless of the duration of gestation.

LOW BIRTHWEIGHT (LBW)

See Birthweight Categories.

NEONATE

A child under 28 days of age.

NORMAL BIRTHWEIGHT (NBW)

See Birthweight Categories.

OCCURRENCE BIRTH

A birth occurring in the Commonwealth of Massachusetts, regardless of the residency of the mother. In Massachusetts, the place will be one of the 351 cities or towns. See Resident Birth.

PARITY

Total number of live births, including the present birth, ever born to the mother.

POST NEONATE

A child whose age is at least 28 days, but less than one year.

PRIMARY

See Caesarean Section.

RACE

Assignment of an Infant's Race/Ethnicity: Prior to 1989, the race/ethnicity of an infant was assigned by combining information on the race/ethnicity of the mother and the race/ethnicity of the father. Since 1989, Massachusetts has followed the National Center for Health Statistics' recommendation of classifying births according to the self-reported race/ethnicity of the mother. Therefore, beginning in 1989, the race/ethnicity of an infant is identical to the self-reported race/ethnicity of the infant's mother.

Race of mother: For data presented in this publication, mother's race is as reported by the infant's mother.

Hispanic Ethnicity: Beginning in 1986, an identifier for Hispanic ethnicity was added to the birth certificate. Prior to this change, most Hispanics were included with whites and it was not possible to accurately calculate Hispanic-specific rates of natality.

REPEAT

See Caesarean Section.

RESIDENT BIRTH

The birth of an infant whose mother reports that her usual place of residence is in Massachusetts. In Massachusetts, a resident is a person with a permanent address in one of the 351 cities or towns. Vital statistics data may be presented in terms either of residence or occurrence. Unless otherwise noted, all data in this publication are resident data. Resident data include all events that occur to residents of the Commonwealth, wherever they occur. Occurrence data include all events that occur within the state, whether to residents or non-residents. There is an exchange agreement among the 50 states, Canada, Puerto Rico, Guam, the Virgin Islands, and the District of Columbia that provides for exchange of copies of birth and death records. These records are used for statistical purposes only, and allow each state or province to track the births and deaths of its residents.

VERY LOW BIRTHWEIGHT (VLBW)

See Birthweight Categories.

RATES IMPORTANT FOR THIS SECTION INCLUDE:

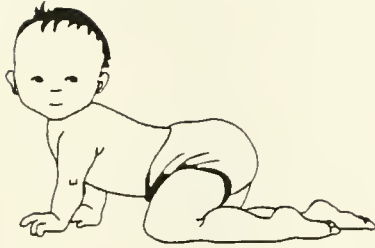
AGE-SPECIFIC BIRTH RATE **No. of Resident Live Births for a
Specific Age Group of Mothers x 1,000
Total Female Population of That
Specific Age Group**

CRUDE BIRTH RATE **No. of Resident Live Births x 1,000
Total Resident Population**

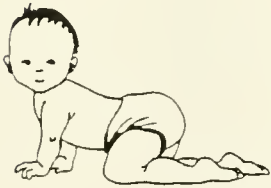
GENERAL FERTILITY RATE **No. of Resident Live Births x 1,000
Total Female Population of
Childbearing Age (15-44)**

Figure B-1

Everyday in 1994, residents of Massachusetts experienced an average of:



229 Births



48 Births by Caesarean Section



36 Births to women aged 35 or older



36 Births with less than adequate
prenatal care



17 Births to women aged 15 through 19



15 Births weighing less than 2500 grams
(low birthweight)

Table B-1. Trends in Birth Characteristics, Massachusetts: 1980, 1985, 1990-1994

Year	1980	1985	1990	1991	1992	1993	1994
Births¹	# ² Rate ³	72,591 53.4	81,781 57.5	92,461 62.1	88,176 59.5	87,202 59.2	84,627 57.7
Race of Mother							
White⁴	# %	66,220 91.2	71,854 87.9	80,775 87.4	76,983 87.3	76,052 87.2	73,704 87.1
Black	# %	4,626 6.4	5,099 6.2	7,729 8.3	7,352 8.3	7,203 8.3	6,916 8.2
Asian/Other⁵	# %	1,069 1.5	1,741 2.1	3,688 4.0	3,566 4.0	3,582 4.1	3,664 4.3
Unknown	# %	676 0.9	3,087 3.8	269 0.3	275 0.3	365 0.4	343 0.4
Teenage Births (Ages 15-19)	# Rate ⁶	7,694 28.1	6,859 28.7	7,258 35.4	6,892 33.4	6,555 31.8	6,469 31.5
Births to Unmarried Mothers	# %	11,356 15.6	15,044 18.4	22,837 24.7	22,852 25.9	22,612 25.9	22,345 26.4
Low Birthweight	# %	4,413 6.1	4,751 5.8	5,388 5.8	5,199 5.9	5,137 5.9	5,202 6.1
Adequate Prenatal Care	% ⁷ %	82.0 79.6	79.4 78.6	80.1 78.8	81.6 81.2	82.9 82.7	83.8 83.6

¹ Births presented in all birth tables are resident live births unless otherwise specified. ² Differences in numbers of births from previous publications are the result of updated files. ³ Rate equals total births to women 15-44 per 1,000 women aged 15-44. Differences in rates from previous publications are the result of modifications of population estimates. ⁴ On tables and graphs which include data prior to June 1986, the race classifications do not include an ethnicity component; most Hispanics are included in the race category of white. ⁵ Other races include American Indian, Hawaiian, and Other. ⁶ Rate per 1,000 females aged 15-19. ⁷ Percentages in upper row are based on births with known scores of adequacy of prenatal care; bottom row percentages are based on total numbers of births. In subsequent tables and figures, percentage with adequate prenatal care is computed only on births with known adequacy scores.

Table B-2. Age-Specific and Crude Birth Rates, Massachusetts: 1993 and 1994

Mother's Age	1993		1994		Percent Change in Rate
	Births ¹	Rate	Births	Rate	
Under 15 ²	138	1.3	155	1.4	+ 7.7
15-19	6,469	31.5	6,412	31.2	- 0.9
20-24	14,678	61.0	13,849	59.2	- 3.0
25-29	24,899	96.2	24,068	95.4	- 0.8
30-34	25,864	97.3	26,168	99.4	+ 2.2
35-39	10,728	42.3	11,249	43.8	+ 3.5
40-44	1,775	7.5	1,797	7.4	- 1.3
Over 45 ³	69	--	60	--	--
Birth Rate, ages 15-44 ⁴	84,413	57.7	83,543	57.4	- 5.2
Crude Birth Rate ⁵	84,627	13.9	83,758	13.7	- 1.4

¹ Differences in the number of births from previous publications are the result of updating of files. The number of births for all age groups does not always add to the total number of births because mother's age is sometimes not known. ² Denominator is females aged 12-14. ³ Rates are not calculated for age groups with less than 100 births. ⁴ Rate is births per 1,000 females aged 15-44. ⁵ Births per 1,000 residents (females and males).

Figure B-2. Resident Live Births by Mother's Race/Ethnicity: 1994

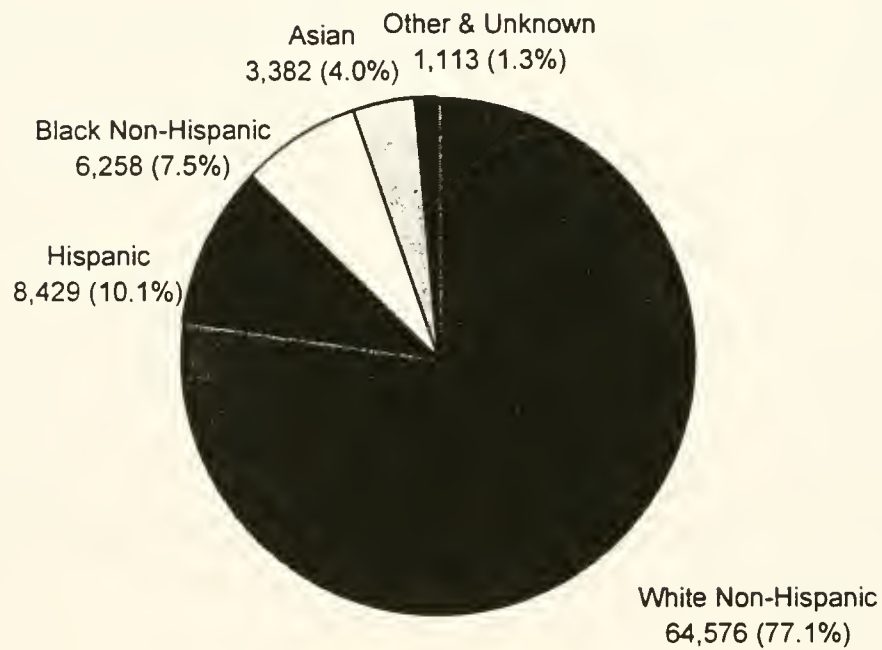


Figure B-3. Resident Live Births by Mother's Age: 1994

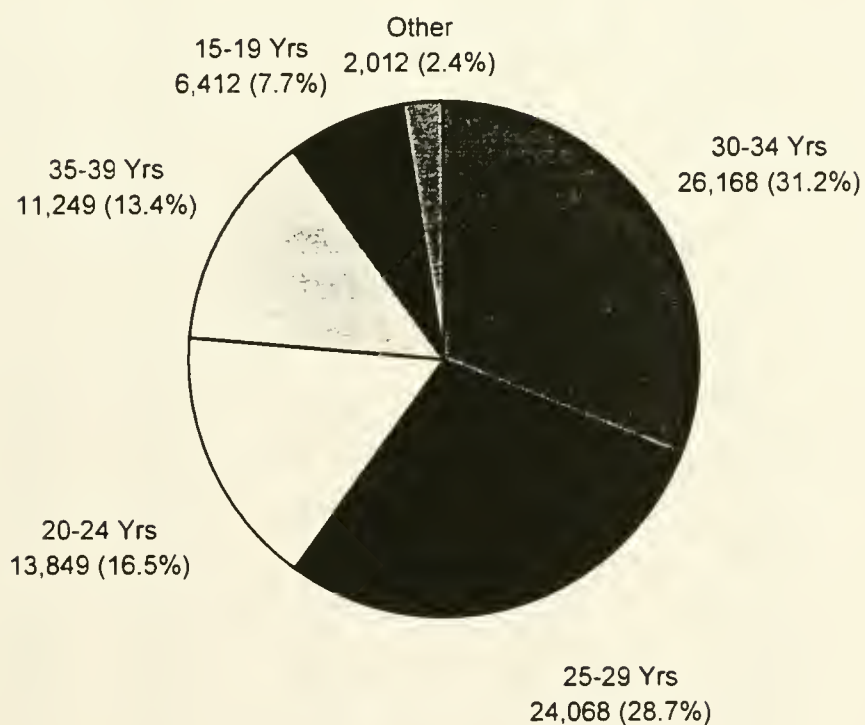


Table B-3. Resident Births By Mother's Age, Marital Status and Race/Ethnicity, Massachusetts: 1994

Age of Mother	Marital Status	Total	White Non-Hispanic	Black Non-Hispanic	Hispanic	Asian	Other	Unknown
Grand Total		83,758	64,576	6,258	8,429	3,382	949	164
Total Married		61,456	52,679	2,269	3,238	2,625	513	132
Total Unmarried		22,302	11,897	3,989	5,191	757	436	32
< 15	Total	155	41	36	69	9	0	0
	Married	3	0	0	3	0	0	0
	Unmarried	152	41	36	66	9	0	0
15	Total	371	137	68	144	11	10	1
	Married	9	4	0	5	0	0	0
	Unmarried	362	133	68	139	11	10	1
16	Total	822	358	133	289	26	16	0
	Married	33	11	3	17	2	0	0
	Unmarried	789	347	130	272	24	16	0
17	Total	1,244	575	186	421	40	21	1
	Married	94	42	4	42	3	3	0
	Unmarried	1,150	533	182	379	37	18	1
18	Total	1,758	960	253	470	42	33	0
	Married	171	94	7	59	10	1	0
	Unmarried	1,587	866	246	411	32	32	0
19	Total	2,217	1,232	321	557	60	46	1
	Married	371	217	20	113	13	8	0
	Unmarried	1,846	1,015	301	444	47	38	1
20-24	Total	13,849	9,055	1,502	2,477	546	250	19
	Married	6,071	4,686	265	762	271	77	10
	Unmarried	7,778	4,369	1,237	1,715	275	173	9
25-29	Total	24,068	18,869	1,689	2,194	1,024	263	29
	Married	19,306	16,408	717	1,133	845	180	23
	Unmarried	4,762	2,461	972	1,061	179	83	6
30-34	Total	26,168	22,239	1,339	1,286	1,034	208	62
	Married	23,638	20,900	791	794	940	158	55
	Unmarried	2,530	1,339	548	492	94	50	7
35-39	Total	11,249	9,580	611	446	483	86	43
	Married	10,143	8,934	384	265	451	73	36
	Unmarried	1,106	646	227	181	32	13	7
40-44	Total	1,797	1,481	118	73	103	15	7
	Married	1,564	1,339	77	43	86	12	7
	Unmarried	233	142	41	30	17	3	0
≥ 45	Total	60	49	2	3	4	1	1
	Married	53	44	1	2	4	1	1
	Unmarried	7	5	1	1	0	0	0

Table B-4. Births by Gestational Age¹, Race and Hispanic Ethnicity, Massachusetts: 1994

Gestational Age (weeks completed)	Total		White non-Hispanic		Black non-Hispanic		Hispanic		Asian		Other		Unknown	
	#	% ²	#	%	#	%	#	%	#	%	#	%	#	%
State Total	83,758	100.0	64,576	100.0	6,258	100.0	8,429	100.0	3,382	100.0	949	100.0	164	100.0
<20	27	0.0	16	0.0	4	-- ³	6	0.1	0	--	0	--	1	--
20-23	141	0.2	79	0.1	35	0.6	19	0.2	4	--	3	--	1	--
24-27	326	0.4	206	0.3	68	1.1	43	0.5	4	--	5	--	0	--
<28	494	0.6	301	0.5	107	1.7	68	0.8	8	0.2	8	0.8	2	--
28-31	632	0.8	417	0.6	103	1.6	80	0.9	19	0.6	12	1.3	1	--
32-35	2,815	3.4	1,953	3.0	385	6.2	350	4.2	93	2.7	30	3.2	4	--
36	2,551	3.0	1,849	2.9	285	4.6	297	3.5	88	2.6	30	3.2	2	--
<37 ⁴	6,492	7.8	4,520	7.0	880	14.1	795	9.4	208	6.2	80	8.4	9	5.5
37-39 ⁵	35,354	42.2	26,744	41.4	2,721	43.5	3,732	44.3	1,713	50.7	385	40.6	59	36.0
40	24,823	29.6	19,555	30.3	1,652	26.4	2,334	27.7	953	28.2	299	31.5	30	18.3
41	12,595	15.0	10,203	15.8	730	11.7	1,133	13.4	381	11.3	129	13.6	19	11.6
42	3,520	4.2	2,818	4.4	216	3.5	341	4.0	95	2.8	43	4.5	7	4.3
43	617	0.7	476	0.7	43	0.7	65	0.8	23	0.7	10	1.1	0	--
44+	159	0.2	116	0.2	10	0.2	25	0.3	7	0.2	1	--	0	--
Unknown ⁶	198	0.2	144	0.2	6	0.1	4	--	2	--	2	--	40	24.4

¹ A clinical estimate of the number of weeks of pregnancy completed, as estimated by the attendant at birth or the postnatal physician. ² Percentages are based on column total. ³ Calculations based on fewer than five events are excluded. ⁴ Also known as early gestational age, premature delivery, or preterm delivery. ⁵ Normal gestational age is defined as 37-42 weeks. ⁶ Estimate not provided.

Table B-5. Resident Births to Teenage Mothers: 1970-1994

Year	Total Births	<u>Age of Mother</u>								Total 12-19	% of Total Births
		12	13	14	15	16	17	18	19		
1970	93,582	3	8	70	320	802	1,726	3,043	4,285	10,257	11.0
1971	86,755	3	23	84	313	875	1,738	2,981	4,000	10,017	11.5
1972	76,835	1	20	103	348	955	1,841	2,834	3,690	9,792	12.7
1973	72,237	0	12	93	393	959	1,759	2,584	3,282	9,082	12.6
1974	70,071	2	16	79	333	895	1,762	2,524	3,181	8,792	12.5
1975	68,070	2	18	84	325	915	1,678	2,560	3,085	8,667	12.7
1976	65,947	7	12	96	336	807	1,478	2,332	2,923	7,991	12.1
1977	67,838	1	18	68	270	792	1,477	2,293	2,913	7,832	11.5
1978	68,526	3	15	67	303	737	1,445	2,252	2,979	7,801	11.4
1979	70,568	2	9	70	283	773	1,413	2,306	2,916	7,772	11.0
1980	72,591	1	14	56	300	740	1,360	2,202	3,092	7,765	10.7
1981	73,931	1	12	82	275	722	1,357	2,164	2,816	7,429	10.0
1982	75,749	1	14	83	299	753	1,328	2,161	2,722	7,361	9.7
1983	76,031	0	8	78	255	726	1,278	2,053	2,521	6,919	9.1
1984	78,198	1	8	75	265	714	1,307	2,061	2,585	7,016	9.0
1985	81,776	4	12	97	295	698	1,283	1,986	2,595	6,970	8.5
1986	82,163	0	15	82	334	712	1,233	1,954	2,521	6,851	8.3
1987	84,343	2	15	79	327	796	1,337	1,965	2,498	7,019	8.3
1988	88,047	0	27	120	352	732	1,450	2,068	2,511	7,260	8.2
1989	91,314	0	19	108	345	853	1,426	2,207	2,776	7,734	8.5
1990	92,461	3	18	103	351	810	1,344	2,014	2,739	7,382	8.0
1991	88,176	2	18	102	372	758	1,391	1,910	2,461	7,014	7.9
1992	87,202	3	14	103	341	782	1,327	1,753	2,352	6,675	7.6
1993	84,627	1	15	121	360	741	1,259	1,872	2,237	6,606	7.8
1994	83,758	3	21	131	371	822	1,244	1,758	2,217	6,567	7.8

Table B-6. Births by Birthweight, Race and Hispanic Ethnicity, Massachusetts: 1994

Birthweight (in grams)	Total		White non- Hispanic		Black non- Hispanic		Hispanic		Asian		Other		Unknown	
	#	% ¹	#	%	#	%	#	%	#	%	#	%	#	%
State Total	83,758	100.0	64,576	100.0	6,258	100.0	8,429	100.0	3,382	100.0	949	100.0	164	100.0
<500	119	0.1	66	0.1	27	0.4	21	0.2	3	-- ²	1	--	1	--
500-999	379	0.5	239	0.4	79	1.3	43	0.5	10	0.3	8	0.8	0	--
1000-1499	478	0.6	307	0.5	95	1.5	59	0.7	10	0.3	6	0.6	1	--
VLBW (<1500) ³	976	1.2	612	0.9	201	3.2	123	1.5	23	0.7	15	1.6	2	--
1500-1999	1,090	1.3	752	1.2	144	2.3	142	1.7	39	1.2	12	1.3	1	--
2000-2499	3,269	3.9	2,235	3.5	427	6.8	392	4.7	163	4.8	43	4.5	9	5.5
LBW (<2500) ⁴	5,335	6.4	3,599	5.6	772	12.3	657	7.8	225	6.7	70	7.4	12	7.3
2500-2999	12,074	14.4	8,295	12.8	1,288	20.6	1,575	18.7	737	21.8	166	17.5	13	7.9
3000-3499	29,641	35.4	22,174	34.3	2,355	37.6	3,255	38.6	1,423	42.1	381	40.1	53	32.3
3500-3999	26,102	31.2	21,371	33.1	1,374	22.0	2,258	26.8	818	24.2	248	26.1	33	20.1
4000-4499	8,840	10.6	7,662	11.9	384	6.1	567	6.7	148	4.4	69	7.3	10	6.1
4500-4999	1,451	1.7	1,245	1.9	68	1.1	95	1.1	27	0.8	12	1.3	4	--
> = 5000	152	0.2	126	0.2	9	0.1	12	0.1	2	--	2	--	1	--
Unknown	163	0.2	104	0.2	8	0.1	10	0.1	2	--	1	--	38	23.2

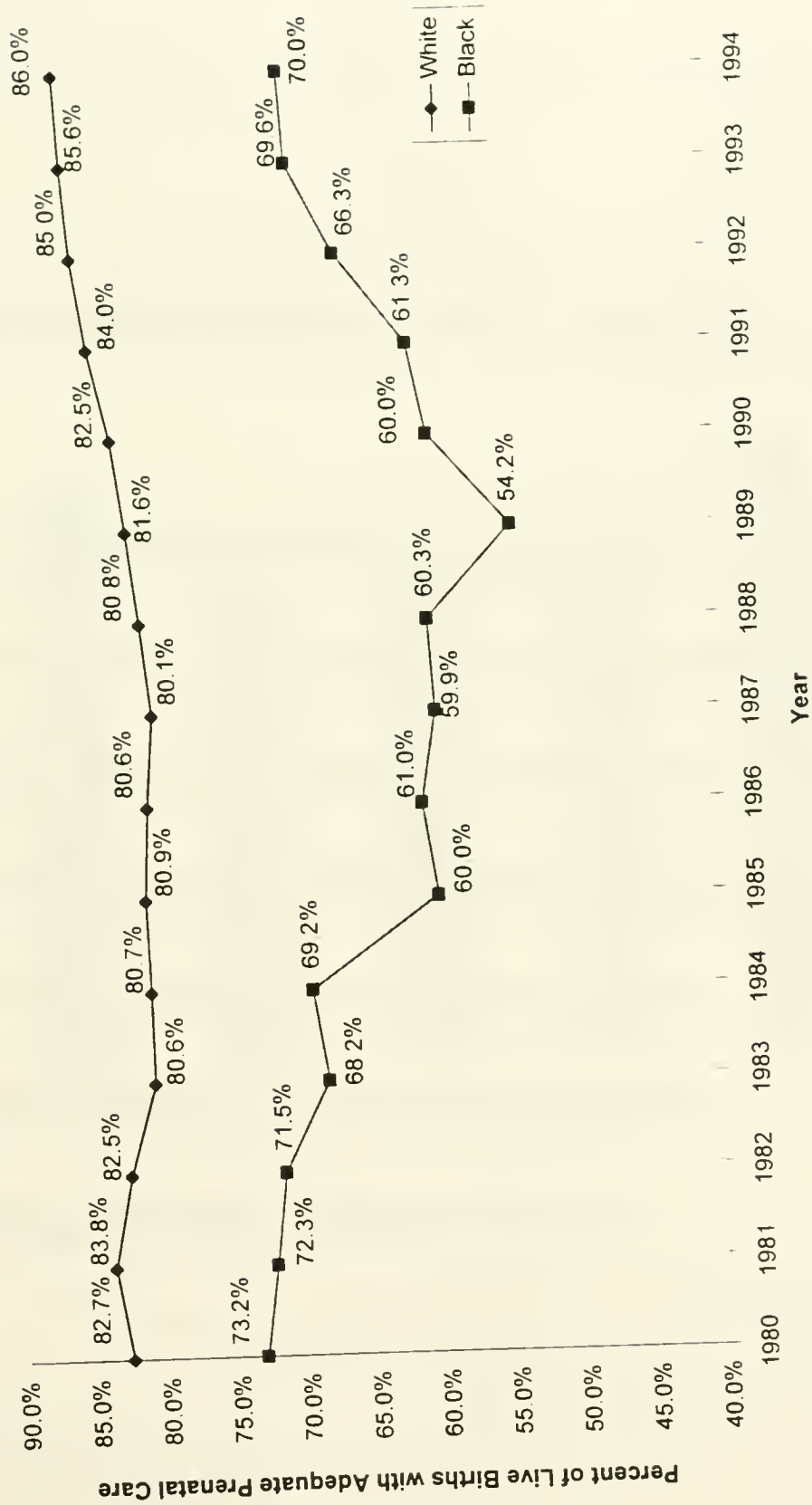
¹ Percentages are based on column totals. ² Calculations based on fewer than five events are excluded. ³ VLBW: Very Low Birthweight ⁴ LBW: Low Birthweight.

Table B-7. Birth Characteristics by Race and Ethnicity, Massachusetts: 1994

Race and Ethnicity	Births ¹		Teen Births		Birthweight				Prenatal Care		Caesarean Section		Breast Feeding ⁴					
	#	%	#	%	< 18 Years	< 20 Years	Very Low ²	Low ³	Adequate	1st Trimester	#	%	#	%				
State Total	83,758	100.0	2,592	3.1	6,567	7.8	976	1.2	5,335	6.4	70,440	84.3	74,393	89.0	17,289	20.7	53,211	64.7
White Non-Hispanic	64,576	77.1	1,111	1.7	3,303	5.1	612	0.9	3,599	5.6	56,444	87.6	59,343	92.0	13,658	21.2	40,964	64.7
Black Non-Hispanic	6,258	7.5	423	6.8	997	15.9	201	3.2	772	12.3	4,374	70.2	4,778	76.6	1,337	21.4	3,979	63.9
Haitian	899	1.1	23	2.6	57	6.3	36	4.0	97	10.8	656	73.2	708	79.0	233	25.9	740	82.5
Other West Indian	581	0.7	20	3.4	54	9.3	18	3.1	62	10.7	428	73.7	458	78.8	111	19.2	492	84.8
American	3,668	4.4	338	9.2	756	20.6	128	3.5	506	13.8	2,502	68.4	2,753	75.2	725	19.9	1,953	53.3
Other Black	1,110	1.3	42	3.8	130	11.7	19	1.7	107	9.6	788	71.6	859	78.1	268	24.2	794	73.0
Hispanic	8,429	10.1	923	11.0	1,950	23.1	123	1.5	657	7.8	6,221	74.0	6,642	79.0	1,509	17.9	5,559	66.1
Puerto Rican	4,560	5.4	725	15.9	1,466	32.1	82	1.8	429	9.4	3,195	70.3	3,440	75.6	761	16.7	2,349	51.7
Dominican	1,387	1.7	87	6.3	201	14.5	12	0.9	88	6.3	1,118	80.7	1,185	85.5	299	21.6	1,123	81.1
Central American	962	1.1	31	3.2	102	10.6	15	1.6	53	5.5	640	66.7	700	72.9	141	14.7	810	84.3
South American	780	0.9	11	1.4	35	4.5	5	0.6	39	5.0	661	85.0	685	88.0	189	24.2	707	90.8
Other Hispanic	740	0.9	69	9.3	146	19.7	9	1.2	48	6.5	607	82.8	632	86.2	119	16.2	570	77.2
Asian	3,382	4.0	86	2.5	188	5.6	23	0.7	225	6.7	2,607	77.2	2,775	82.2	554	16.4	1,999	59.5
Chinese	1,030	1.2	5	0.5	10	1.0	7	0.7	51	5.0	882	85.9	934	90.9	172	16.7	712	69.6
Vietnamese	645	0.8	27	4.2	58	9.0	3	.. ⁵	38	5.9	465	72.3	497	77.3	78	12.1	185	28.7
Cambodian	496	0.6	35	7.1	64	12.9	3	..	41	8.3	274	55.4	281	56.8	42	8.5	103	20.8
Other S.E. Asian	157	0.2	11	7.0	27	17.2	3	..	18	11.5	96	61.1	113	72.0	21	13.5	76	48.4
Other Asian	1,054	1.3	8	0.8	29	2.8	7	0.7	77	7.3	890	84.5	950	90.2	241	22.9	923	88.6
Other ⁶	949	1.1	47	5.0	126	13.3	15	1.6	70	7.4	700	74.1	755	79.7	206	21.9	643	68.5
Unknown ⁷	164	0.2	2	..	3	..	2	..	12	7.3	94	80.3	100	84.7	25	16.9	67	76.1

¹ In the Births category, percentages are based on column totals. For all other categories, percentages are based on row totals. For Prenatal Care, Caesarean Section, and Breastfeeding variables, percentages are calculated only for cases where information is known. ² Very Low Birthweight: <1,500 grams or 3.3 pounds. ³ Low Birthweight: <2,500 grams or 5.5 pounds. ⁴ Mother was breastfeeding or was intending to breastfeed at the time the birth certificate was completed. ⁵ Calculations based on fewer than five events are excluded. ⁶ Other: Mothers who designated themselves as Other race. ⁷ Unknown: Mothers who did not indicate a race/ethnicity.

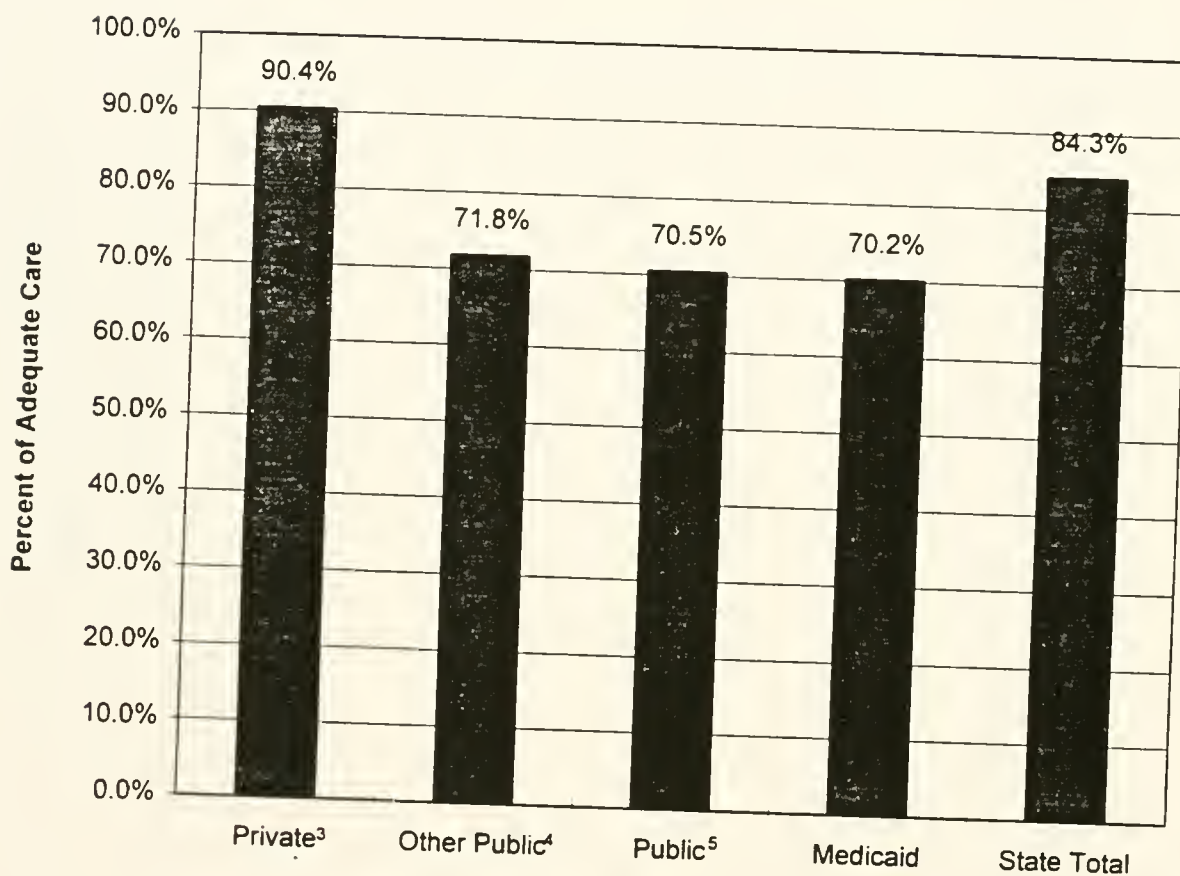
Figure B-4. Trends in Adequacy of Prenatal Care¹ by Race², Massachusetts: 1980-1994



¹ Calculations are based on births with known adequacy of prenatal care scores.

² On tables and graphs which include data prior to June 1986, the race classifications do not include an ethnicity component; most Hispanics are included in the race category of white.

Figure B-5
Adequacy of Prenatal Care¹ by Prenatal Care Source of Payment²
Massachusetts: 1994



¹ Percentages are based on births with known adequacy of prenatal care scores.

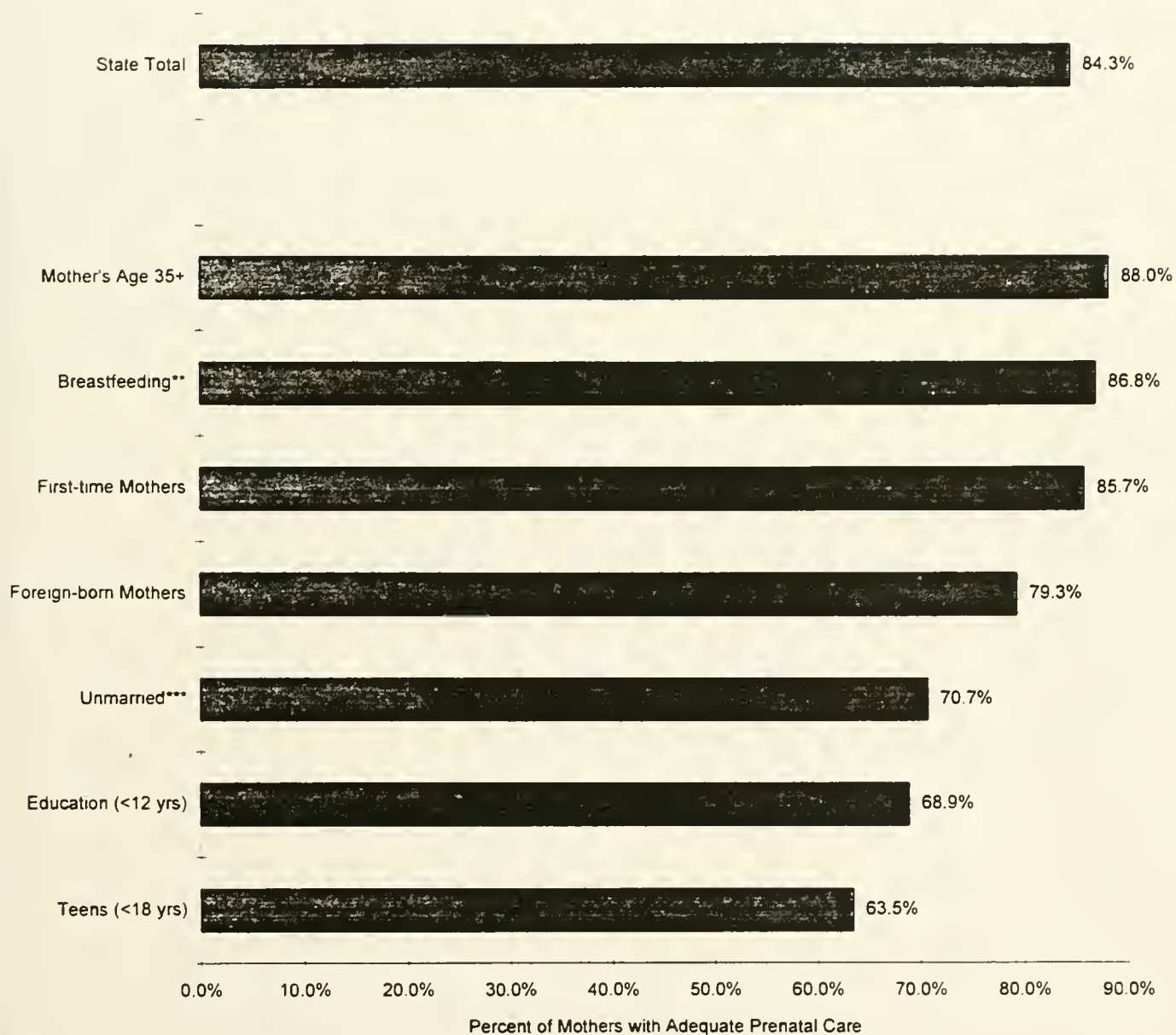
² The source of payment for prenatal care is a self-reported item on the birth certificate. As with all such data, they are subject to the limitations of self-reported information and should be interpreted with the usual caution.

³ Private: Blue Cross/Blue Shield, Commercial Insurers and Health Maintenance Organizations.

⁴ Other Public: Workers' Compensation and other non-Government.

⁵ Public: Medicare, Healthy Start and Other Government.

Figure B-6
Adequacy of Prenatal Care* for Selected Population Characteristics
Massachusetts: 1994



* Calculations are based on births with known adequacy of prenatal care scores.

** Mother was or was intending to breastfeed at the time the birth certificate was completed.

*** Women 20 years of age and older.

Table B-8. Parity By Age of Mother, Massachusetts: 1994¹

Age of Mother		Total Births	1st	2nd	3rd	4th	5th +
All Ages	# ² % ³	83,758 100.00	35,444 42.3	28,535 34.1	12,871 15.4	4,442 5.3	2,267 2.7
10-14	# %	155 100.00	151 97.4	4 -- ⁴	0 --	0 --	0 --
15-19	# %	6,412 100.00	5,079 79.2	1,060 16.5	225 3.5	34 0.5	10 0.2
20-24	# %	13,849 100.00	7,096 51.2	4,422 31.9	1,650 11.9	502 3.6	165 1.2
25-29	# %	24,068 100.00	10,829 45.0	8,094 33.6	3,377 14.0	1,188 4.9	548 2.3
30-34	# %	26,168 100.00	8,807 33.7	10,188 38.9	4,827 18.4	1,524 5.8	767 2.9
35-39	# %	11,249 100.00	2,977 26.5	4,145 36.8	2,487 22.1	980 8.7	624 5.5
40-44	# %	1,797 100.00	487 27.1	599 33.3	302 16.8	207 11.5	191 10.6
45 +	# %	60 100.00	18 30.0	23 38.3	3 --	7 11.7	7 11.7

¹ The number of live births including this birth. ² Totals include births of unknown parity and unknown age. ³ Percents may not sum to 100.0 due to rounding. ⁴ Calculations based on fewer than five events are excluded.

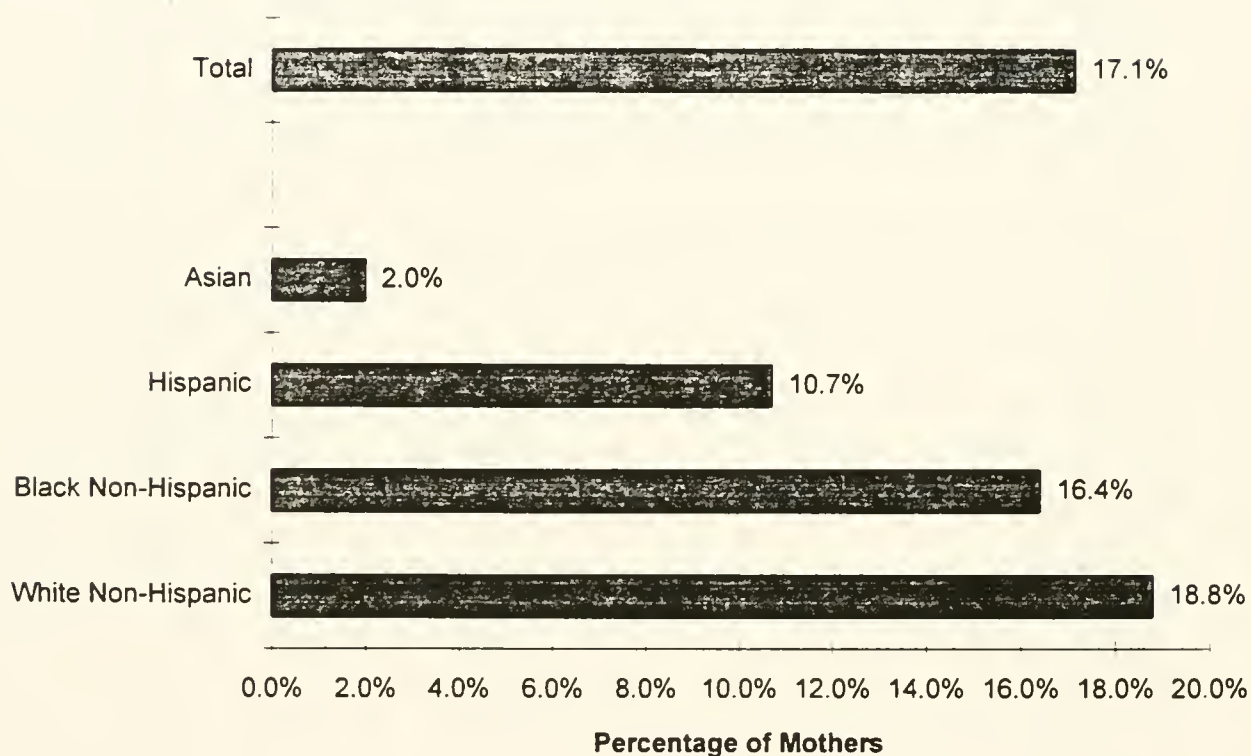
Table B-9. Low Birthweight¹ by Age, Race and Hispanic Ethnicity, Massachusetts: 1994

Mother's Age	Total LBW Infants # ²	Total LBW % ³	White non-Hispanic		Black non-Hispanic		Hispanic		Asian		Other		Unknown	
			#	%	#	%	#	%	#	%	#	%	#	%
State	5,335	6.4	3,599	5.6	772	12.3	657	7.8	225	6.7	70	7.4	12	7.3
<18	264	10.2	81	7.3	54	12.8	108	11.7	13	15.1	7	14.9	1	-- ⁴
18-19	336	8.5	166	7.6	76	13.2	84	8.2	6	5.9	4	--	0	--
20-24	879	6.3	529	5.8	138	9.2	161	6.5	36	6.6	15	6.0	0	--
25-29	1,445	6.0	1,001	5.3	219	13.0	144	6.6	58	5.7	19	7.2	4	--
30-34	1,514	5.8	1,133	5.1	188	14.0	109	8.5	60	5.8	18	8.7	6	9.7
35-39	735	6.5	570	5.9	80	13.1	38	8.5	39	8.1	7	8.1	1	--
40+	162	8.7	119	7.8	17	14.2	13	17.1	13	12.1	0	--	0	--

¹ Low Birthweight: An infant weighing < 2,500 grams or 5.5 pounds at birth. ² Column subgroups do not equal total because there were birth certificates that did not include mother's age. ³ Percentages are based upon the number of low birthweight infants divided by the total births in each age and race/ethnicity category.

⁴ Calculations based on fewer than five events are excluded. NOTE: The relationship between mother's age and low birthweight is influenced by other factors, such as nutrition, education and prenatal care. For example, mothers under the age of 18 also have a lower percentage of adequate prenatal care.

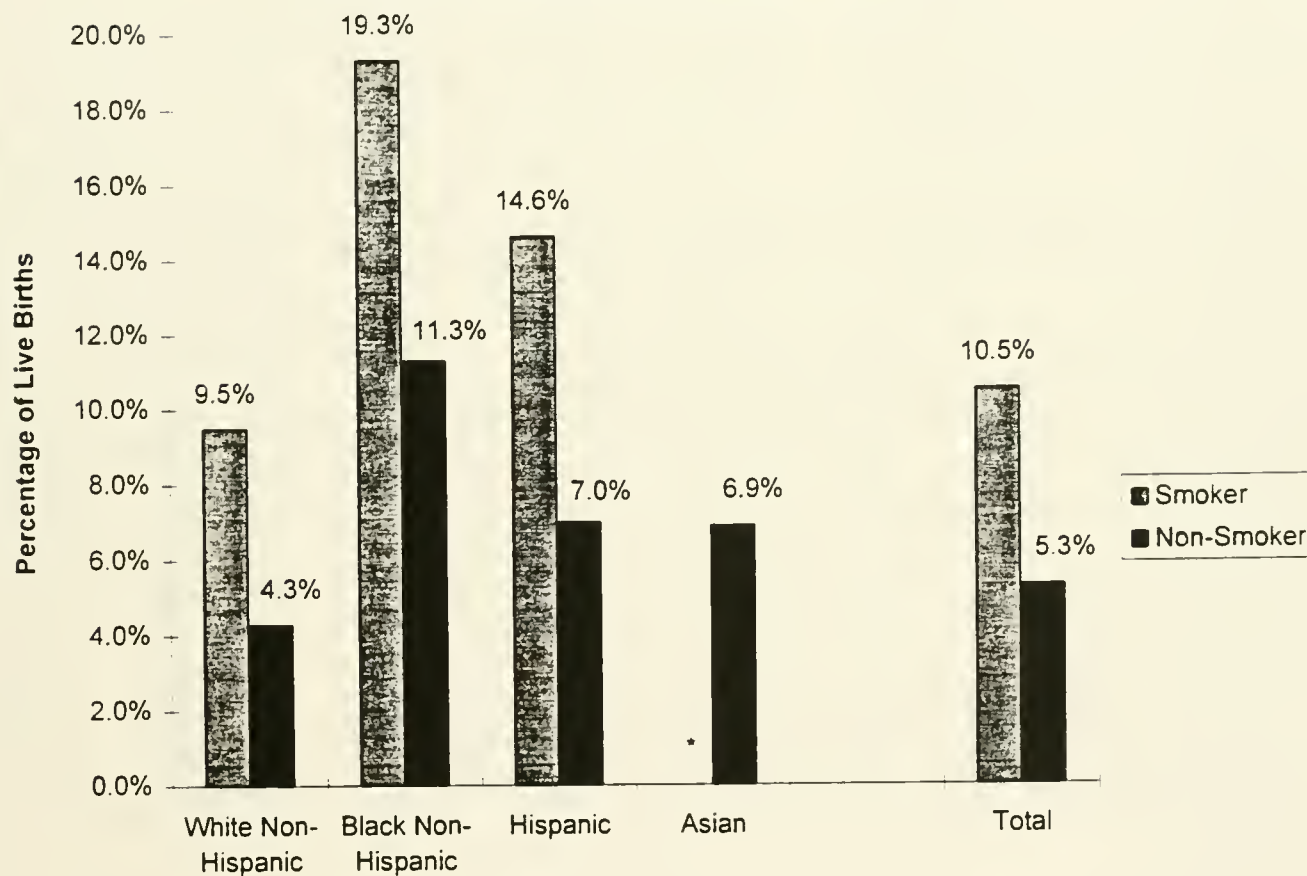
Figure B-7
Percentage of Mothers Who Smoked^{1, 2} During Pregnancy
by Race and Ethnicity, Massachusetts: 1994



¹ Based on information provided on the birth certificate by the mother. Mothers who have more than one delivery are counted for each birth.

² Hospitals reporting smoking rates more than 3 standard deviations below the mean level of hospital reporting (18.2%) are excluded. Using this criterion, the following hospitals are excluded: Martha's Vineyard (6.8%), Newton-Wellesley (4.6%), Massachusetts General (5.4%), Brigham and Women's (2.3%) and North Shore Birth Center (2.6%).

Figure B-8
Low Birthweight^{1,2,3} Among Smoking and Nonsmoking Mothers
by Race and Ethnicity, Massachusetts: 1994



¹ Low birthweight: less than 2,500 grams or 5.5 pounds.

² Based on information provided on the birth certificate by the mother.

³ Hospitals reporting smoking rates more than 3 standard deviations below the mean level of hospital reporting (18.2%) are excluded. Using this criterion, the following hospitals are excluded: Martha's Vineyard (6.8%), Newton Wellesley (4.6%), Massachusetts General (5.4%), Brigham and Women's (2.3%) and North Shore Birth Center (2.6%).

* Less than 5 events.

Table B-10. Low Birthweight by Level of Prenatal Care , Race and Hispanic Ethnicity, Massachusetts: 1994¹

Race and Ethnicity Birthweight		Level of Prenatal Care			
		Total	Adequate	Intermediate	Late/None
State Total	Total	83,533	70,440	10,994	2,099
Low Birthweight	# ²	5,306	4,123	919	264
	%	6.4	5.9	8.4	12.6
White non-Hispanic	Total	64,456	56,444	6,953	1,059
Low Birthweight	#	3,589	2,963	510	116
	%	5.6	5.2	7.3	11.0
Black non-Hispanic	Total	6,235	4,374	1,385	476
Low Birthweight	#	762	486	191	85
	%	12.2	11.1	13.8	17.9
Hispanic	Total	8,405	6,221	1,772	412
Low Birthweight	#	652	451	153	48
	%	7.8	7.2	8.6	11.7
Asian	Total	3,375	2,607	664	104
Low Birthweight	#	225	168	46	11
	%	6.7	6.4	6.9	10.6
Other/Unknown	Total	1,062	794	220	48
Low Birthweight	#	78	55	19	4
	%	7.3	6.9	8.6	8.3

¹ All data are based on 83,533 births with known adequacy of care data. ² Low birthweight: <2,500 grams or 5.5 pounds.

Table B-11. Birth Characteristics by Source of Prenatal Care Payment, Race and Hispanic Ethnicity, Massachusetts: 1994

Race and Ethnicity	Births ¹		Teen Births			Birthweight		
	#	%	#	%	< 20 Years	Very Low ²	#	%
Payment Source								
STATE TOTALS: BIRTHS ⁴	83,758	100.0	2,592	3.1	6,567	7.8	976	1.2
Public	23,381	27.9	1,868	8.0	4,915	21.0	325	1.4
Medicaid	19,866	23.7	1,760	8.9	4,548	22.9	274	1.4
Other Public ⁵	3,515	4.2	108	3.1	367	10.4	51	1.5
Private ⁶	56,490	67.4	598	1.1	1,351	2.4	581	1.0
WHITE NON-HISPANIC								
Public	64,576	100.0	1,111	1.7	3,303	5.1	612	0.9
Medicaid	11,982	18.6	651	5.4	2,167	18.1	125	1.0
Other Public	10,480	16.2	621	5.9	2,038	19.4	109	1.0
Private	1,502	2.3	30	2.0	129	8.6	16	1.1
	49,615	76.8	398	0.8	966	1.9	439	0.9
BLACK NON-HISPANIC								
Public	6,258	100.0	423	6.8	997	15.9	201	3.2
Medicaid	3,576	57.1	324	9.1	778	21.8	101	2.8
Other Public	3,065	49.0	307	10.0	723	23.6	86	2.8
Private	511	8.2	17	3.3	55	10.8	15	2.9
	2,401	38.4	82	3.4	179	7.5	87	3.6
HISPANIC								
Public	8,429	100.0	923	11.0	1,950	23.1	123	1.5
Medicaid	6,108	72.5	786	12.9	1,714	28.1	83	1.4
Other Public	4,819	57.2	727	15.1	1,543	32.0	65	1.3
Private	1,289	15.3	59	4.6	171	13.3	18	1.4
	1,970	23.4	97	4.9	161	8.2	34	1.7
ASIAN								
Public	3,382	100.0	86	2.5	188	5.6	23	0.7
Medicaid	1,234	36.5	73	5.9	152	12.3	10	0.8
Other Public	1,096	32.4	72	6.6	146	13.3	9	0.8
Private	138	4.1	1	--	6	4.3	1	--
	2,001	59.2	9	0.4	25	1.2	11	0.5
OTHER⁸								
Public	949	100.0	47	5.0	126	13.3	15	1.6
Medicaid	469	49.4	34	7.2	103	22.0	6	1.3
Other Public	395	41.6	33	8.4	97	24.6	5	1.3
Private	74	7.8	1	--	6	8.1	1	--
	425	44.8	12	2.8	20	4.7	9	2.1

In the first category "Births", percentages are based on race/ethnicity totals. For all other categories, percentages are based on Birth totals. ² Very low birthweight: < 1,500 grams or 3.3 pounds. ³ Low Birthweight: < 2,500 grams or 5.5 pounds. ⁴ Total births does not equal Public + Private. Other categories of prenatal care payment are also included in Total: Workers' Compensation, self-paid, and other. ⁵ Other Public: Healthy Start, Medicare, Other Government programs, and Free-care. ⁶ Private: Blue Cross/Blue Shield, commercial insurance, and HMO. ⁷ Calculations based on fewer than five events are excluded. ⁸ Other: Mothers who self-designated other races. Data for mothers of Unknown race are included in State totals.

Table B-11. (Continued) Birth Characteristics By Prenatal Care Payment, Race and Hispanic Ethnicity, Massachusetts: 1994

Race and Ethnicity	Adequate Prenatal Care		Care Began in First Trimester		Cesarean Section Deliveries		BreastFeeding ¹	
	#	%	#	%	#	%	#	%
STATE TOTALS: BIRTHS	70,440	84.3	74,393	89.0	17,289	20.7	53,211	64.7
Public	16,438	70.5	17,696	75.8	4,100	17.6	11,659	50.0
Medicaid	13,925	70.2	14,988	74.0	3,421	17.2	9,057	45.7
Other Public	2,513	71.8	2,708	77.3	679	19.3	2,603	74.4
Private	50,991	90.4	53,522	94.9	12,426	22.0	39,528	70.9
WHITE NON-HISPANIC	56,444	87.6	59,343	92.0	13,658	21.2	40,964	64.7
Public	8,913	74.5	9,489	79.3	2,191	18.3	5,153	43.2
Medicaid	7,743	74.0	8,243	78.8	1,896	18.1	4,172	40.0
Other Public	1,170	78.2	1,246	83.2	295	19.6	981	65.8
Private	45,126	91.1	47,326	95.5	10,882	22.0	34,317	70.2
BLACK NON-HISPANIC	4,374	70.2	4,778	76.6	1,337	21.4	3,979	63.9
Public	2,166	60.8	2,443	68.6	689	19.3	2,003	56.2
Medicaid	1,865	61.1	2,102	68.9	586	19.2	1,620	53.0
Other Public	301	59.0	341	66.9	103	20.2	383	75.1
Private	2,033	84.9	2,150	89.8	599	25.1	1,817	75.8
HISPANIC	6,221	74.0	6,642	79.0	1,509	17.9	5,559	66.1
Public	4,267	70.0	4,589	75.3	983	16.1	3,831	62.8
Medicaid	3,363	69.9	3,621	75.2	747	15.5	2,758	57.3
Other Public	904	70.5	968	75.4	236	18.3	1,073	83.2
Private	1,700	86.5	1,784	90.8	452	23.0	1,492	75.8
ASIAN	2,607	77.2	2,775	82.2	554	16.4	1,999	59.5
Public	785	63.7	838	68.0	139	11.3	401	32.6
Medicaid	697	63.7	741	67.7	112	10.2	294	26.9
Other Public	88	64.2	97	70.8	27	19.6	107	78.1
Private	1,712	85.8	1,815	90.9	382	19.2	1,512	76.0
OTHER	700	74.1	755	79.7	206	21.9	643	68.5
Public	300	64.1	330	70.5	96	20.6	266	56.7
Medicaid	251	63.7	275	69.8	78	19.8	208	52.7
Other Public	49	66.2	55	74.3	18	24.3	58	78.4
Private	357	84.4	379	89.4	100	23.8	338	80.1

¹ Mother was intending to breastfeed at the time the birth certificate was completed.

1,2

Table B-12. Resident Birth Characteristics, 30 Largest Municipalities, Massachusetts: 1994

Municipality	RANK	Population #	Crude Birth Rate ³	Mother's Race and Ethnicity				Asian or Other ⁴	Very Low Birthweight (<1500 gms.) %	Low Birthweight (<2500 gms.) %
				White Non- Hispanic	Black Non- Hispanic	Hispanic	%			
State total		6,105,460	13.7	77.1	7.5	10.1	4.0		1.2	6.4
ARLINGTON	28	43,796	12.6	86.9	2.5	3.8	6.5		1.3	8.9
BARNSTABLE	26	43,928	12.0	86.9	2.8	5.7	4.4		1.1	5.3
BOSTON	1	590,057	14.3	34.8	36.0	20.3	8.6		1.9	8.8
BROCKTON	8	90,020	16.0	55.8	22.3	11.4	10.1		1.5	8.2
BROOKLINE	20	53,077	11.0	78.1	3.6	3.9	14.4		1.0	7.7
CAMBRIDGE	6	94,452	11.7	56.7	18.0	10.8	14.2		1.1	6.0
CHICOPEE	16	57,324	11.5	84.2	2.3	11.9	1.7		0.9	6.4
FALL RIVER	7	90,054	13.9	91.1	2.2	2.3	4.4		0.7	7.4
FRAMINGHAM	13	66,592	14.0	67.3	5.0	20.9	6.9		1.6	7.8
HAVERHILL	21	52,718	16.3	88.2	1.7	7.2	2.2		1.3	6.5
HOLYOKE	30	41,223	19.7	32.0	3.6	63.4	1.0		2.0	8.4
LAWRENCE	14	65,397	22.0	29.8	2.3	65.6	2.3		1.9	8.6
LOWELL	4	101,489	16.6	58.4	3.7	17.6	20.1		1.5	8.0
LYNN	11	78,791	18.0	55.4	11.0	22.2	11.4		1.0	7.1
MALDEN	19	53,601	14.3	63.1	11.7	6.5	18.5		0.8	6.8
MEDFORD	17	56,466	11.2	85.2	8.8	3.0	2.7		1.6	7.9
METHUEN	29	41,401	13.4	83.6	0.7	12.6	3.1		0.9	5.6
NEW BEDFORD	5	97,004	14.6	70.4	6.2	14.4	8.9		0.9	6.8
NEWTON	10	83,251	10.5	86.5	1.9	2.5	8.9		0.7	6.1
PEABODY	23	47,525	12.8	89.8	1.3	6.3	2.6		1.0	6.1
PITTSFIELD	24	47,080	12.3	92.2	4.1	1.6	2.1		-- ⁵	7.4
PLYMOUTH	25	45,625	15.0	94.9	0.7	1.0	2.6		--	5.3
QUINCY	9	86,525	13.6	74.3	5.4	3.7	16.7		1.2	7.0
REVERE	27	43,856	13.9	71.9	7.1	12.3	8.7		0.8	8.4
SOMERVILLE	12	71,671	14.1	57.8	13.9	19.6	8.6		1.0	6.7
SPRINGFIELD	3	151,397	18.0	40.4	25.6	31.0	2.9		1.7	8.4
TAUNTON	22	49,206	16.5	90.4	3.1	3.7	2.7		1.5	7.5
WALTHAM	15	58,378	12.7	67.8	7.4	13.6	11.1		0.9	7.4
WEYMOUTH	18	56,456	12.8	93.2	1.7	2.2	2.9		1.1	5.7
WORCESTER	2	165,152	15.0	65.1	7.9	20.1	6.7		1.9	8.7

Table B-12 (cont'd) Resident Birth Characteristics, 30 Largest Municipalities, Massachusetts: 1994

Municipality	Adequate Prenatal Care	Public Payment for Prenatal Care	Unmarried	Teen Mothers	Infant Deaths ⁶	Neonatal Deaths
	% ⁷	%	%	#	<1 year	<28 days
				15 to 19 years	Rate ⁸	
State Total	84.3	27.9	26.6	6,412	31.2	6.0
ARLINGTON	85.8	6.0	9.4	6	6.4	--
BARNSTABLE	82.2	33.3	26.7	43	37.4	--
BOSTON	79.5	49.3	48.7	981	45.8	9.1
BROCKTON	66.6	50.5	48.5	204	62.7	8.3
BROOKLINE	91.6	8.2	6.2	1	--	--
CAMBRIDGE	83.2	24.7	24.3	51	17.6	--
CHICOPEE	79.7	42.1	36.9	69	37.1	--
FALL RIVER	80.2	51.7	40.2	166	52.3	--
FRAMINGHAM	91.7	29.4	23.6	53	23.9	9.6
HAVERHILL	85.8	28.5	26.1	76	44.1	5.4
HOLYOKE	63.5	69.6	62.6	196	135.7	--
LAWRENCE	84.1	66.8	59.1	338	129.1	11.1
LOWELL	77.0	48.6	45.3	237	60.5	6.9
LYNN	76.0	51.2	49.1	197	81.3	7.1
MALDEN	83.2	32.5	27.3	40	28.4	10.6
MEDFORD	81.9	17.2	19.7	30	16.2	--
METHUEN	87.7	27.1	28.0	52	39.3	--
NEW BEDFORD	74.6	56.8	51.1	265	77.8	8.5
NEWTON	90.3	5.6	6.1	1	--	4.2
PEABODY	90.1	17.2	18.5	29	20.6	--
PITTSFIELD	79.8	33.3	32.8	48	31.5	--
PLYMOUTH	88.0	20.9	18.8	22	14.6	--
QUINCY	86.6	26.2	20.3	42	18.5	--
REVERE	81.0	37.9	34.6	49	46.6	--
SOMERVILLE	82.3	41.5	31.0	73	36.1	7.9
SPRINGFIELD	68.3	59.8	57.1	563	96.6	11.0
TAUNTON	81.9	26.8	28.4	87	54.6	9.9
WALTHAM	86.4	23.9	22.4	34	15.0	--
WEYMOUTH	90.7	13.2	16.6	27	16.0	8.3
WORCESTER	86.1	43.5	43.4	345	53.0	12.1

The 30 largest municipalities are the cities and towns in Massachusetts with the largest population according to 1994 population estimates. ⁷ Does not include responses of "unknown" or "refused" in calculations. ⁸ Births per 1,000 residents. ⁹ Mothers who designated themselves as Asian or Other. ⁵ Calculations based on fewer than 5 events are excluded. ⁶ Deaths per 1,000 live births. ⁷ Calculations based on births with known adequacy scores. ⁸ Births per 1,000 female residents ages 15 to 19.

Table B-13. Occurrence and Caesarean Births by Licensed Maternity Facility, Massachusetts: 1994¹

Facility	Location	Birth Characteristics				Caesarean Sections ²			
		Occurrence Births	Low Birthweight	Public Payment for Delivery ³	Adequate Prenatal Care	Total	% ⁴	Primary	Repeat
State Total		84,895	6.3	27.6	84.3	17,528	20.7	11,020	6,508
Addison Gilbert Hospital	Gloucester	208	1.9	36.5	80.8	49	23.6	31	18
Anna Jaques Hospital	Newburyport	891	4.0	20.2	84.7	142	15.9	91	51
Baystate Medical Center	Springfield	5,702	8.6	39.5	75.8	1,178	20.7	693	485
Berkshire Medical Center	Pittsfield	1,048	6.1	24.0	79.3	217	20.7	130	87
Beth Israel Hospital	Boston	5,425	9.6	22.6	86.6	1,252	23.1	861	391
Beverly Hospital	Beverly	2,479	3.1	19.1	86.0	479	19.3	301	178
Boston City Hospital	Boston	1,536	13.0	90.9	52.0	293	19.1	193	100
Brigham and Women's Hospital	Boston	8,727	10.0	17.4	90.2	1,928	22.4	1,326	602
Brockton Hospital	Brockton	1,276	5.3	39.4	73.4	280	21.9	165	115
Burbank Hospital	Fitchburg	769	4.7	48.6	76.3	88	11.4	60	28
Cambridge Hospital	Cambridge	779	2.7	78.4	63.1	90	11.6	55	35
Cape Cod Hospital	Hyannis	1,113	3.7	32.8	83.7	220	19.8	135	85
Charlton Memorial Hospital	Fall River	1,785	5.5	40.1	83.1	340	19.0	225	115
Cooley-Dickinson Hospital	Northampton	1,006	1.6	19.4	91.3	160	15.9	95	65
Emerson Hospital	Concord	1,583	2.7	8.6	83.8	337	21.3	209	128
Fairview Hospital	Great Barrington	182	3.8	38.5	82.2	30	16.5	18	12
Falmouth Hospital	Falmouth	664	2.3	38.4	84.2	127	19.1	81	46
Franklin Medical Center	Greenfield	640	4.1	38.1	83.0	143	22.3	93	50
Good Samaritan Medical Center	Stoughton	1,292	4.8	35.9	63.2	262	20.3	176	86
Hale Hospital	Haverhill	655	4.1	39.4	80.9	112	17.1	61	51
Harrington Memorial Hospital	Southbridge	425	4.2	47.4	80.2	94	22.1	56	38
Henry Heywood Memorial Hospital	Gardner	354	4.0	47.2	77.4	73	20.6	46	27

Table B-13. (Continued) Occurrence and Caesarean Births by Maternity Facility, Massachusetts: 1994

Facility	Location	Birth Characteristics				Caesarean Sections			
		Occurrence Births	Low Birthweight	Public Payment for Delivery	Adequate Prenatal Care	Total	%	Primary	Repeat
Holy Family Hospital/Medical Cntr	Methuen	939	2.8	33.7	81.0	202	21.5	132	70
Holyoke Hospital	Holyoke	140	5.7	50.7	67.2	25	17.9	14	11
Jordan Hospital	Plymouth	895	2.8	27.5	85.7	196	21.9	108	88
Lawrence General Hospital	Lawrence	1,742	6.0	44.6	93.2	361	20.7	204	157
Leominster Hospital	Leominster	1,225	3.8	22.9	85.7	238	19.4	155	83
Lowell General Hospital	Lowell	2,415	5.1	34.2	86.2	419	17.3	237	182
Malden Hospital	Malden	1,005	4.1	38.3	74.9	225	22.4	136	89
Martha's Vineyard Hospital	Oak Bluffs	118	2.5	27.1	85.5	29	24.6	16	13
Mary Lane Hospital	Ware	272	4.8	37.5	79.8	67	24.6	42	25
Massachusetts General Hospital ⁵	Boston	37	18.9	55.6	25.8	11	29.7	7	4
Medical Center of Central Mass	Worcester	3,975	11.4	29.2	92.7	812	20.4	526	286
Melrose-Wakefield Hospital	Melrose	1,360	3.3	13.9	95.2	321	23.6	186	135
Metrowest Medical Center	Framingham	2,269	4.1	18.8	94.3	558	24.6	294	264
Metrowest Medical Center	Natick	752	2.1	10.0	95.1	164	21.8	94	70
Milford-Whitinsville Hospital	Milford	487	3.1	33.9	85.4	114	23.4	78	36
Morton Hospital and Medical Cntr.	Taunton	686	5.5	36.4	83.8	199	29.1	106	93
Mount Auburn Hospital	Cambridge	1,685	5.4	17.1	85.4	384	22.8	267	117
Nantucket Cottage Hospital	Nantucket	81	2.5	18.5	90.1	11	13.6	8	3
New England Medical Cntr/Hospital	Boston	2,022	22.4	35.0	88.0	554	27.4	381	173
New England Memorial Hospital	Stoneham	1,168	2.9	10.6	94.5	279	23.9	174	105
Newton-Wellesley Hospital	Newton	4,128	3.5	1.8	89.2	687	16.6	458	229
North Adams Regional Hospital	North Adams	388	4.4	35.3	87.0	76	19.6	47	29
North Shore Birth Center	Beverly	114	0.9	12.3	92.1	0	0.0	0	0
North Shore Medical Center	Salem	1,996	4.9	31.6	88.6	448	22.4	270	178

Table B-13. (Continued) Occurrence and Caesarean Births by Maternity Facility, Massachusetts: 1994

Facility	Location	Occurrence Births	Birth Characteristics			Adequate Prenatal Care	Caesarean Sections		
			Low Birthweight	Public Delivery	Payment for		Total	%	Primary Repeat
Norwood Hospital	Norwood	1,108	2.5	9.9	81.8	261	23.6	149	112
Providence Hospital	Holyoke	1,111	4.6	53.0	76.2	174	15.7	108	66
Quincy Hospital	Quincy	938	4.3	33.7	84.1	222	23.7	141	81
Saints Memorial - St. John's ⁶	Lowell	119	5.0	37.8	81.5	32	26.9	27	5
Saints Memorial - St. Joseph's ⁶	Lowell	229	9.2	37.6	68.9	47	20.5	27	20
South Shore Hospital	South Weymouth	2,707	3.0	3.2	94.7	511	18.9	284	227
St. Elizabeth's Hospital	Boston	1,882	8.1	38.9	90.0	515	27.4	351	164
St. Luke's Hospital	New Bedford	1,758	4.0	49.3	77.9	350	19.9	194	156
St. Vincent Hospital	Worcester	2,394	3.7	20.3	87.1	312	13.0	216	96
Sturdy Memorial Hospital	Attleboro	915	3.8	26.9	81.0	209	22.8	129	80
Tobey Hospital	Wareham	415	3.6	39.0	91.1	60	14.5	38	22
Waltham-Weston Hospital	Waltham	385	2.9	42.6	84.8	64	16.6	26	38
Winchester Hospital	Winchester	2,200	4.3	8.5	65.6	497	22.6	289	208
All Other hospitals		10	30.0	33.3	40.0	0	0.0	0	0
Home, Enroute, Other		286	10.1	36.6	54.6	0	-	0	0

¹ A licensed maternity facility is a medical unit licensed by the Commonwealth for the care of women during pregnancy and childbirth. ² The percentage of Caesarean births reported is not adjusted for risk factors such as mother's age, birthweight, or complications of labor and delivery, which would influence the number of procedures in a particular facility. Caution should be used when comparing unadjusted percentages. ³ Public payment for delivery includes Medicaid/Commonwealth, Medicare, Healthy Start, other government programs, and free care. ⁴ Percentages calculated on births with known method of delivery. ⁵ Birth unit opened in November of 1994. ⁶ In September, the birth facilities moved from St. Joseph's campus to St. John's Campus.

DEATHS

SECTION C

DEATHS

Massachusetts resident deaths decreased from 1993 (55,557 deaths) to 1994 (54,914 deaths). The death rate per 1,000 population also decreased from 9.1 in 1993 to 9.0 in 1994. As with live births, Massachusetts resident deaths include all deaths to Massachusetts residents regardless of the state in which they occurred. Most data presented in this section are resident data. Occurrence data are used only for medical examiner data.

DEATHS BY RACE/ETHNICITY

From 1993 to 1994, the number of deaths by race/ethnicity remained relatively constant with white non-Hispanic residents comprising 94.0% of total deaths in Massachusetts. Black non-Hispanic deaths totaled 3.8% of total deaths, Hispanic deaths 1.6%, Asian deaths 0.6%, other and unknown race deaths 0.1%.

Prior to 1989, only a race question was included on death certificates. A separate item on Hispanic origin was added to the death record beginning January 1, 1989. This item asks whether the decedent was of Hispanic origin. If answered affirmatively, then specific Hispanic origin (e.g., Puerto Rican, Dominican, Cuban, etc.) is requested.

DEATHS BY AGE

Persons 75 years of age or older accounted for 57.1% of deaths. The percent of deaths to residents in this age group vary widely by sex and race/ethnicity.

SEX	RACE	% OF DEATHS UNDER AGE 75	% OF DEATHS 75 YEARS AND OLDER
MALE	WHITE NON-HISPANIC	51.8	48.2
	BLACK NON-HISPANIC	79.9	20.1
	HISPANIC	88.9	11.1
	ASIAN	67.2	32.8
	OTHER/UNKNOWN	75.0	25.0
	TOTAL	53.9	46.1
FEMALE	WHITE NON-HISPANIC	31.3	68.7
	BLACK NON-HISPANIC	57.8	42.2
	HISPANIC	76.0	24.0
	ASIAN	57.0	43.0
	OTHER/UNKNOWN	100.0	00.0
	TOTAL	32.8	67.2
TOTAL	WHITE NON-HISPANIC	40.9	59.1
	BLACK NON-HISPANIC	69.7	30.3
	HISPANIC	84.3	15.7
	ASIAN	62.4	37.6
	OTHER/UNKNOWN	83.3	16.7
	TOTAL	42.9	57.1

DEATHS BY PLACE OF OCCURRENCE

Between 1993 and 1994, there was little variation in the sites where deaths occurred. The data are presented below:

SITE	% OF DEATHS 1994	% OF DEATHS 1993
HOSPITAL	52.1	54.4
AT HOME	20.2	19.9
NURSING OR REST HOME	23.8	21.8
EN ROUTE TO HOSPITAL OR DEAD ON ARRIVAL	2.5	2.7
OTHER AND UNKNOWN ¹	1.4	1.2
TOTAL	100.0	100.0

DEATHS BY CAUSE

Cause of death statistics in this report are based on the Ninth Revision of the International Classification of Diseases (ICD-9). The methodology of coding cause of death from death certificates is consistent nationally, using the Automated Classification of Medical Entities (ACME), developed by the National Center for Health Statistics (NCHS). The ACME system requires every disease or condition mentioned on the record to be coded. The underlying cause is then selected by a computer program which incorporates the ICD-9 rules and conventions. Cause of death information in this report is based on underlying cause, except where otherwise noted.

The leading causes of death differed markedly by race and ethnicity in 1994. Eight of the ten leading causes of death for whites were composed of chronic diseases (e.g., heart disease, cancer, stroke, respiratory illness, and diabetes) which usually afflict older people. However, the leading causes of death for blacks and Hispanics included AIDS and homicide which occur more frequently among younger people, and perinatal conditions which occur in infancy. For the first time in Massachusetts, AIDS was among the leading ten causes of deaths for all three major race/ethnicity groups: first for Hispanics, third for blacks, and ninth for whites.

¹ Other and Unknown includes prison or other institutions and all other places.

White			Black			Hispanic ²		
Cause	#	%	Cause	#	%	Cause	#	%
Heart disease	16,388	31.2	Cancer	470	22.6	AIDS & HIV-related diseases	157	18.2
Cancer	13,311	25.4	Heart disease	434	20.9	Heart disease	150	17.3
Stroke	3,193	6.1	AIDS & HIV-related diseases	193	9.3	Cancer	108	12.5
Pneumonia & Influenza	2,569	4.9	Stroke	123	5.9	Homicide	38	4.4
COPD ³	2,287	4.4	Homicide	88	4.2	Perinatal conditions	31	3.6
Diabetes	1,268	2.4	Diabetes	76	3.6	Stroke	29	3.4
Unintentional injury ⁴	778	1.5	COPD	56	2.7	Chronic liver disease	28	3.2
Nephritis	763	1.4	Pneumonia & Influenza	48	2.3	Congenital anomalies	25	2.9
AIDS & HIV-related diseases	738	1.4	Perinatal conditions	47	2.3	Motor vehicle injuries	24	2.8
Septicemia	645	1.2	Septicemia	43	2.1	Diabetes	22	2.5
All other causes ⁵	10,525	20.1	All other causes	501	24.1	All other causes	253	29.2
Total	52,465	100.0	Total	2,079	100.0	Total	865	100.0

ACQUIRED IMMUNE DEFICIENCY SYNDROME (AIDS)

The Ninth Revision of the International Classification of Diseases was developed before the identification of AIDS. Classification of this disease and related diseases has evolved since 1981. The deaths presented in Table C-10 and Table C-10A were coded by using the most current schedule. Comparison data prior to 1987 are not available.

In 1994, 938 Massachusetts residents died from AIDS and HIV-related illnesses, a 21% increase from 1993 and a 110% increase from 1990. The rise in the number of deaths from AIDS and HIV-related diseases during 1994 reflect the increase in the number of cases diagnosed in Massachusetts in previous years.

² Persons of Hispanic ethnicity are also included in the race categories, consistent with the U.S. Census population classification.

³ Chronic Obstructive Pulmonary Disease.

⁴ Excludes motor vehicle injuries.

⁵ All Other Causes includes intentional and motor vehicle injuries and all other causes not specifically mentioned above.

DEATHS CERTIFIED BY MEDICAL EXAMINERS

The total number of deaths certified by medical examiners decreased from 4,491 in 1993 to 4,290 in 1994. Of the deaths certified by medical examiners, 51.4% were reported as a result of natural causes. The percentage of deaths due to natural causes (i.e., non-injury related causes) certified by medical examiners varies widely by county, from a high of 100.0% in Nantucket County to a low of 41.8% in Worcester County. Hampshire County had the greatest percentage of deaths (21.1%) that were referred to medical examiners, but with the certification retained by the attending physician, while the highest number of such deaths was in Middlesex County with 2,025 deaths.

COMMUNITY HEALTH NETWORK AREAS (CHNA)

The Department of Public Health, in collaboration with health service providers, coalition members, and other interested citizens, has designated 27 areas for community health planning. It is the Department's intention to foster in each of these areas the development of Community Health Networks--consortia of health care providers, human service agencies, schools, churches, youth, parents, elders, advocacy groups, and individual consumers--to address the health needs of the community. These community coalitions will participate in monitoring outcomes and the progress of strategies and responses to those health needs.

A Community Health Network Area (CHNA) is defined as an aggregation of cities and towns. (The city of Boston constitutes its own Community Health Network Area.) In this publication, we have presented some data by CHNA according to 1994 geographical definitions. It is hoped that the Networks will mobilize around key health issues impacting the community, promote prevention efforts, enhance access to health care, provide opportunities for more collaboration among agencies, and create a client-centered, outcome-oriented health service delivery system. Community Health Networks will also promote efficiency in service delivery by working to reduce duplication and overlap, and by identifying gaps, in service.

DEFINITIONS IMPORTANT FOR THIS SECTION INCLUDE:

AGE-ADJUSTED RATE

A procedure for adjusting rates, designed to minimize the effects of differences in age distribution when comparing rates for different populations. This procedure is accomplished by the computational process known as age standardization, whereby mortality statistics are adjusted to a reference population. For this publication, the reference population is the 1940 U.S. population, the same as used by the National Center for Health Statistics. The result of the process is a summary index that can be used to compare rates of different populations throughout the nation and over time.

CAUSE OF DEATH

The disease or injury that initiated the series of events leading to death, or the circumstances of the unintentional or intentional injury that resulted in the death.

DEATH CERTIFICATE

A vital record signed by a licensed physician that includes cause of death, decedent's name, sex, birth date, place of residence, and place of occurrence.

INTERNATIONAL CLASSIFICATION OF DISEASES, NINTH REVISION

The International Classification of Disease (ICD) classifies mortality information for statistical purposes. The ICD was first used in 1900 and has since been revised about every 10 years. The Ninth Revision, published in 1977, is used to code mortality data beginning with 1979.

MISER

The Massachusetts Institute for Social and Economic Research. This research institute, located at the University of Massachusetts in Amherst, produces the official population estimates and projections for the Department of Public Health.

OCCURRENCE DEATH

Occurrence deaths include all deaths that occur within the state, including deaths of non-residents. An interstate exchange agreement among the 50 states and Canada provides for exchanges of copies of birth and death records. These records are used for statistical purposes only, and allow each state or province to track the births and deaths of residents.

RACE

For death records, race is provided by the death record informant (for example, spouse or next of kin).

RESIDENT DEATH

The death of a person whose usual place of residence or permanent address (as reported by the informant) is in one of the 351 cities or towns of Massachusetts, regardless of where the death took place. Unless otherwise noted, all data in this publication are resident data. An interstate exchange agreement among the 50 states and Canada provides for exchange of copies of birth and death records. These records are used for statistical purposes only, and allow each state or province to track the births and deaths of residents.

UNDERLYING CAUSE OF DEATH

The underlying cause of death is: 1.) the disease or injury that initiated the series of events leading to death, or 2.) the circumstances of the unintentional or intentional injury that resulted in the death. See Death Certificate.

RATES IMPORTANT FOR THIS SECTION INCLUDE:

**AGE-SPECIFIC
DEATH RATE** $\frac{\text{Number of Resident Deaths in Specific Age Group}}{\text{Total Population of Specific Age Group}} \times 100,000$

**CAUSE-SPECIFIC
DEATH RATE** $\frac{\text{Number of Resident Deaths for a Specific Cause}}{\text{Total Population}} \times 100,000$

CRUDE DEATH RATE $\frac{\text{Number of Resident Deaths In A Year}}{\text{Total Population}} \times 100,000$

Figure C-1

Every day in 1994, residents of Massachusetts experienced an average of:

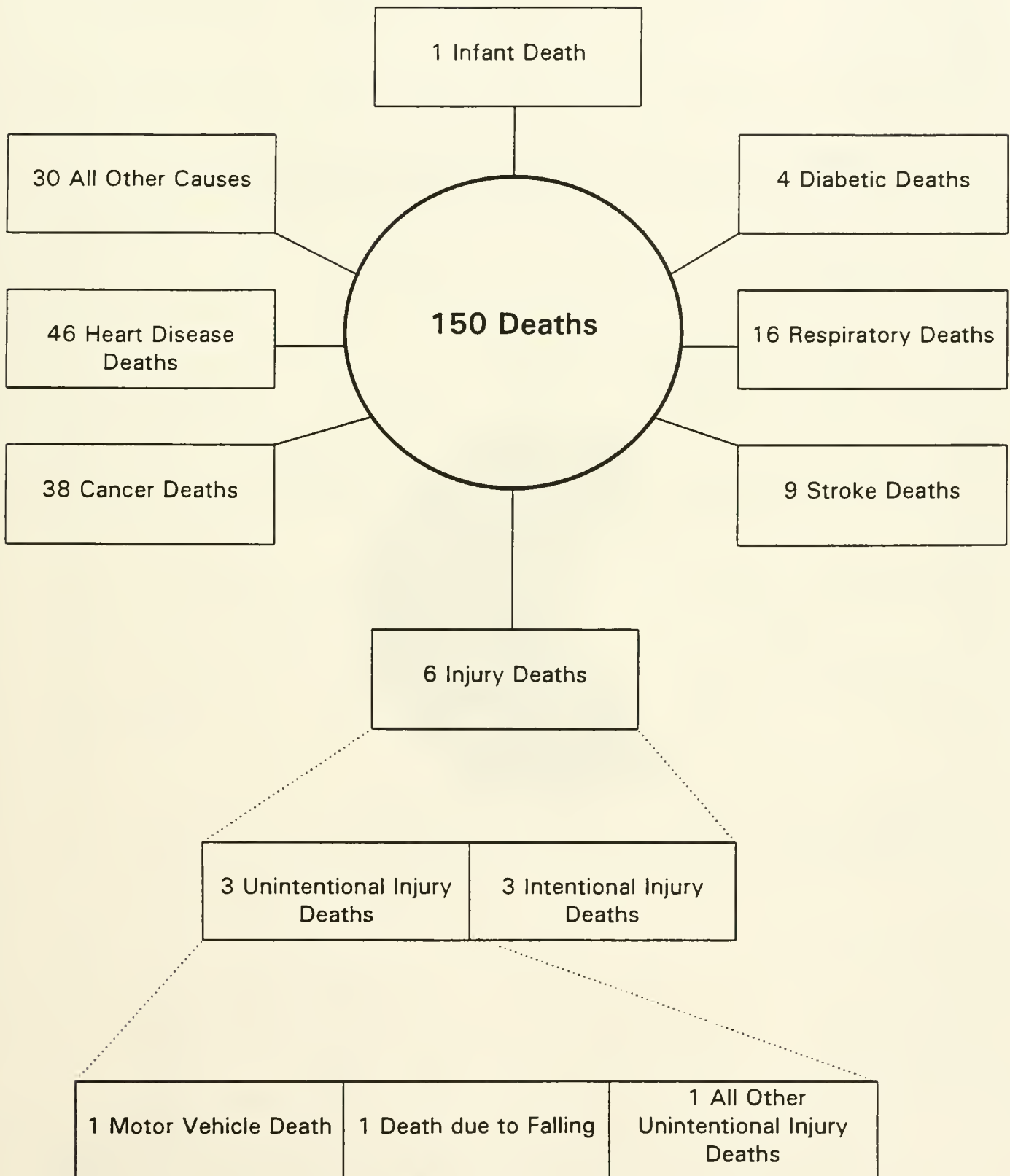
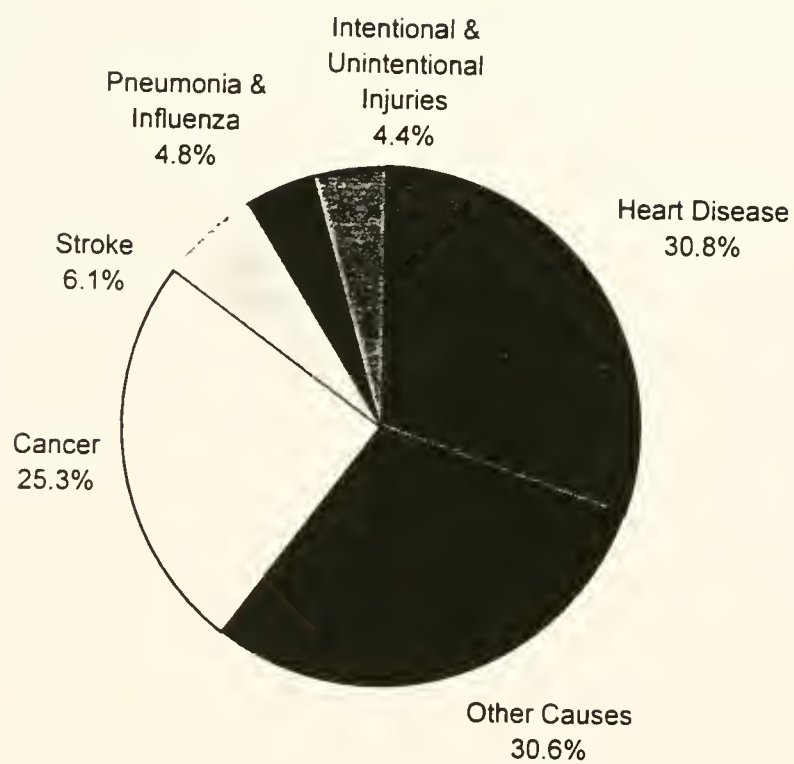


Figure C-2. Leading Causes of Death¹, Massachusetts: 1994



¹ Number of total deaths = 54,914

Table C-1. Trends in Mortality Characteristics¹, Massachusetts: 1980, 1985, 1989, 1990, 1991, 1992, 1993, 1994

Year	1980	1985	1989	1990	1991	1992	1993	1994
Resident deaths								
Number	54,934	55,597	53,748	53,008	53,010	53,804	55,557	54,914
Crude rate ^{2,3}	957.5	946.0	897.5	881.0	877.9	887.7	913.3	899.4
Age-adjusted rate ⁴	550.7	523.7	489.9	471.7	461.5	463.2	474.5	453.6
Race of decedent ⁵								
White								
Number	53,251	53,580	51,608	50,779	50,814	51,525	53,182	52,465
Percent	96.9	96.4	96.0	95.8	95.8	95.8	95.7	95.5
Age-adjusted rate	549.1	498.9	501.5	465.6	455.8	453.8	467.6	446.1
Black								
Number	1,508	1,779	1,850	1,879	1,887	1,957	1,969	2,079
Percent	2.8	3.2	3.4	3.5	3.6	3.6	3.5	3.8
Age-adjusted rate	932.6	761.1	651.9	628.2	611.7	648.4	649.6	660.5
Other								
Number	141	214	290	341	303	319	394	368
Percent	0.3	0.4	0.6	0.6	0.5	0.6	0.7	.7
Unknown								
Number	34	24	0	9	5	3	12	2
Percent	-	-	-	-	-	-	-	-
Sex of decedent								
Female								
Number	27,563	28,367	27,672	27,490	27,550	27,770	29,109	28,733
Age-adjusted rate	377.9	362.0	373.9	360.0	352.7	361.7	364.0	347.3
Male								
Number	27,369	27,230	26,076	25,518	25,460	26,034	26,448	26,181
Age-adjusted rate	663.6	627.5	642.7	618.5	605.6	610.4	622.5	595.2
Age of decedent ⁶								
< 1 year								
Number	748	746	697	649	576	569	523	499
1-14 years								
Number	297	246	229	205	207	225	239	192
15-24 years								
Number	940	763	652	586	538	470	464	473
25-44 years								
Number	2,117	2,303	2,778	2,682	2,912	3,062	3,055	3,210
45-64 years								
Number	10,504	9,691	8,532	8,138	7,877	7,973	7,920	7,766
65 + years								
Number	40,326	41,843	40,857	40,742	40,894	41,503	43,349	42,769

¹ Deaths presented in all tables and figures are resident deaths unless otherwise specified. ² Deaths per 100,000 residents. ³ Resident population data are interpolations of the 1980 and 1990 U.S. Census and the 1995 MISER population projections. ⁴ Rates are age-adjusted per 100,000 residents using the 1940 U.S. Census standard population. ⁵ See other tables for recently available Hispanic data. ⁶ Column sum may not equal total because age of some decedents was unknown.

Table C-2. Five Leading Causes of Death¹, Age-Adjusted Rates²
Massachusetts and United States: 1980, 1985, 1989-1994

Year		Heart disease		Cancer		Stroke		Pneumonia/ Influenza		Unintentional Injuries		All Causes	
		MA		MA		MA		MA		MA		MA	
		U.S.	MA	U.S.	MA	U.S.	MA	U.S.	MA	U.S.	MA	U.S.	MA
1980	Rate ²	197.7	202.0	136.6	132.8	34.2	40.8	16.7	12.9	30.4	42.3	550.7	585.8
	% of Total	39.9	38.2	22.2	20.9	7.9	8.6	4.0	2.7	3.9	5.3		
1985	Rate	178.7	180.5	140.2	133.6	27.3	32.3	14.7	13.4	25.2	34.7	523.7	546.1
	% of Total	37.9	37.2	23.5	22.0	6.8	7.3	4.0	3.2	3.4	4.5		
1989	Rate	142.4	155.9	140.2	133.7	23.8	28.5	13.5	13.3	21.1	33.5	489.9	524.1
	% of Total	33.1	34.1	25.3	23.1	6.4	6.8	4.1	3.5	3.0	4.4		
1990	Rate	138.2	150.3	136.7	133.0	22.5	27.6	14.2	13.5	19.4	32.7	471.7	515.1
	% of Total	33.4	33.5	25.3	23.4	6.2	6.7	4.3	3.6	2.9	4.3		
1991	Rate	130.7	146.1	137.1	132.6	21.1	26.5	14.1	12.6	18.0	31.7	461.5	507.9
	% of Total	32.2	33.2	26.0	23.8	6.2	6.6	4.5	3.5	2.7	4.2		
1992	Rate	128.5	144.5	139.6	133.2	21.1	26.1	13.6	12.7	15.9	29.2	463.2	504.9
	% of Total	31.7	33.1	26.3	23.9	6.2	6.6	4.5	3.5	2.4	4.0		
1993	Rate	132.4	144.7	138.2	133.2	21.7	26.4	16.3	13.2	16.2	29.6	474.5	514.0
	% of Total	31.7	32.6	25.2	23.4	6.1	6.6	5.0	3.6	2.4	3.9		
1994	Rate ³	120.9	140.0	132.6	132.1	20.4	26.7	14.7	13.1	15.3	29.8	453.6	508.4
	% of Total	30.8	32.1	25.3	23.5	6.1	6.8	4.8	3.6	2.4	3.9		

¹ Cause of death: the disease or injury that initiated the events leading to death; or the circumstances of the unintentional or intentional injury that resulted in the death. ² All rates are age-adjusted per 100,000 residents using the 1940 U.S. Census standard population. ³ The 1994 U.S. data are derived from a ten percent sample of deaths. Source: Annual Summary of Births, Marriages, Divorces, and Deaths: United States, 1994, "Monthly Vital Statistics Report, Provisional Data from the Centers for Disease Control/National Center for Health Statistics", U.S. Department of Health and Human Services, Vol. 43, No. 13 (October 23, 1995).

Table C-3. Leading Causes of Death by Age, All Persons, Massachusetts: 1994

Age	Cause of Death	Deaths	
		Number	Rate ¹
1-14 years	Unintentional injuries, excluding motor vehicle injuries	38	3.6
	Cancer	22	2.1
	Motor vehicle-related injuries	17	1.6
	Heart disease	13	1.2
	TOTAL	192	18.0
15-24 years	Motor vehicle-related injuries	119	13.5
	Homicide ²	90	10.2
	Suicide	65	7.4
	Cancer	32	3.6
	TOTAL	473	53.8
25-44 years	AIDS and HIV-related diseases	736	36.7
	Cancer	494	24.6
	Heart disease	337	16.8
	External causes of undetermined intent ³	275	13.7
	TOTAL	3,210	160.0
45-64 years	Cancer	3,136	254.3
	Heart disease	2,019	163.7
	Cerebrovascular disease (stroke)	232	18.8
	COPD ⁴	218	17.7
	TOTAL	7,766	629.6
65 + years	Heart disease	14,510	1,728.4
	Cancer	10,203	1,215.3
	Cerebrovascular disease (stroke)	3,047	362.9
	Pneumonia and Influenza	2,441	290.8
	TOTAL	42,769	5,094.5

¹ Number of deaths per 100,000 persons in each age group. ² The NCHS categories for 72 selected causes of death combines Homicide (ICD9 E960-969) and Legal Intervention (ICD9 E970-978); in addition to the 90 Homicides there was one death due to Legal Intervention.

³ External causes of undetermined intent refers to ICD9 E980-E989, deaths where investigation has not determined whether the injuries are accidental or purposely inflicted. ⁴ Chronic Obstructive Pulmonary Disease.

**Table C-3. (Continued) Leading Causes of Death by Age, Females,
Massachusetts: 1994**

Age	Cause of Death	Deaths	
		Number	Rate ¹
1-14 years	Unintentional injuries, excluding motor vehicle injuries	14	2.7
	Heart disease	8	1.5
	Motor vehicles	7	1.3
	AIDS and HIV-related diseases	6	1.2
	TOTAL	74	14.2
15-24 years	Motor vehicle-related injuries	28	6.4
	Homicide ²	16	3.6
	Cancer	18	4.1
	Suicide	11	2.5
	TOTAL	137	31.1
25-44 years	Cancer	279	27.5
	AIDS and HIV-related diseases	137	13.5
	Heart disease	93	9.2
	External causes of undetermined intent ³	56	5.5
	TOTAL	928	91.4
45-64 years	Cancer	1,479	230.0
	Heart disease	580	90.2
	COPD ⁴	111	17.3
	Cerebrovascular disease (stroke)	102	15.9
	TOTAL	3,043	473.1
65 + years	Heart disease	8,327	1591.5
	Cancer	5,160	986.2
	Cerebrovascular disease (stroke)	1,984	379.2
	Pneumonia and influenza	1,497	286.1
	TOTAL	24,316	4647.3

¹ Number of deaths per 100,000 females in each age group. ² There were no deaths due to Legal Intervention. ³ External causes of undetermined intent refers to ICD9 E980-E989. ⁴ Chronic Obstructive Pulmonary Disease.

**Table C-3. (Continued) Leading Causes of Death by Age, Males,
Massachusetts: 1994**

Age	Cause of Death	Deaths	
		Number	Rate ¹
1-14 years	Unintentional injuries, excluding motor vehicle injuries	24	4.4
	Cancer	18	3.3
	Motor vehicle-related injuries	10	1.8
	Congenital anomalies	6	1.1
	TOTAL	118	21.5
15-24 years	Motor vehicle-related injuries	91	20.8
	Homicide ²	72	16.4
	Suicide	54	12.3
	Unintentional injuries, excluding motor vehicle injuries	26	5.9
	TOTAL	336	76.6
25-44 years	AIDS and HIV-related diseases	599	60.4
	Heart disease	244	24.6
	External causes of undetermined intent ³	219	22.1
	Cancer	215	21.7
	TOTAL	2,282	230.3
45-64 years	Cancer	1,657	280.7
	Heart disease	1,439	243.8
	AIDS & HIV-related disease	152	25.8
	Chronic Liver disease	132	22.4
	TOTAL	4,723	800.2
65 + years	Heart disease	6,183	1,954.9
	Cancer	5,043	1,594.4
	Cerebrovascular disease (stroke)	994	314.3
	COPD ⁴	1,063	336.1
	TOTAL	18,453	5,834.3

¹ Number of deaths per 100,000 males in each age group. ² In addition to 72 Homicides, there was 1 death due to Legal Intervention.
³ External causes of undetermined intent refers to ICD9 E980-E989. ⁴ Chronic Obstructive Pulmonary Disease.

Table C-4. Leading Causes of Death¹ and Age-Adjusted Death Rates by Race and Hispanic Ethnicity², Massachusetts: 1994

Cause	White			Black			Hispanic		
	#	Rate ³		Cause	#	Rate	Cause	#	Rate
Total	52,465	446.1	Total	Total	2,079	660.5	Total	865	399.4
Heart disease	16,388	120.8	Cancer	Cancer	470	167.2	AIDS and HIV-related diseases	157	57.7
Cancer	13,311	131.9	Heart disease	Heart disease	434	137.2	Heart disease	150	86.7
Cerebrovascular Disease	3,193	19.7	AIDS and HIV-related diseases	AIDS and HIV-related diseases	193	57.4	Cancer	108	64.9
(stroke)			Cerebrovascular disease (stroke)						
Pneumonia/Influenza	2,569	14.7	Cerebrovascular disease (stroke)	Cerebrovascular disease (stroke)	123	38.0	Homicide ⁶	38	12.5
COPD ⁴	2,287	17.9	Homicide ⁵	Homicide ⁵	88	26.8	Perinatal conditions	31	6.7
Diabetes	1,268	11.1	Diabetes	Diabetes	76	26.2	Cerebrovascular disease (stroke)	29	14.2
Unintentional Injury, excluding Motor Vehicle Nephritis	778	7.7	COPD	COPD	56	18.6	Chronic liver disease	28	14.8
AIDS and HIV-related diseases	763	5.2	Pneumonia/Influenza	Pneumonia/Influenza	48	12.9	Congenital anomalies	25	5.6
Septicemia	738	12.1	Perinatal conditions	Perinatal conditions	47	10.4	Motor vehicle injuries	24	8.8
	645	4.5	Septicemia	Septicemia	43	13.5	Diabetes	22	12.4

¹Ranking based on number of deaths. ²Persons of Hispanic ethnicity are also included in the race categories, consistent with the U.S. Census population classification. ³All rates are age-adjusted per 100,000 residents using the 1940 U.S. Census standard population. ⁴Chronic Obstructive Pulmonary Disease. ⁵The NCHS categories for 72 selected causes of death combines Homicide (ICD9 E960-969) and Legal Intervention (ICD9 E970-978). In addition to 88 Homicides, there were 2 deaths due to Legal Intervention. ⁶There were no deaths due to Legal Intervention.

Table C-5. Selected Causes of Death by Race and Hispanic Ethnicity, Age-Specific Rates, Massachusetts: 1994

Selected Causes	Total		White		Black		Hispanic ¹	
	#	Rate ²	#	Rate	#	Rate	#	Rate
Age: 1-14								
Unintentional injuries, excluding motor vehicle injuries	38	3.6	28	2.9	7	8.5	6	7.0
Cancer	22	2.1	21	2.2	0	-- ³	0	--
Motor vehicle-related injuries	17	1.6	17	1.8	0	--	1	--
Heart disease	13	1.2	13	1.4	0	--	1	--
TOTAL	192	18.0	161	16.9	25	30.3	21	24.6
Age: 15-24								
Motor vehicle-related injuries	119	13.5	110	14.0	4	--	6	10.5
Homicide ⁴	90	10.2	42	5.3	45	76.5	17	29.8
Suicide	65	7.4	60	7.6	3	--	3	--
Cancer	32	3.6	28	3.6	4	--	3	--
TOTAL	473	53.8	384	48.7	77	130.8	44	77.1
Age: 25-44								
AIDS & HIV-related diseases	736	36.7	578	31.5	152	138.8	127	135.7
Cancer	494	24.6	451	24.6	32	29.2	16	17.1
Heart disease	337	16.8	299	16.3	35	32.0	16	17.1
External causes of unknown intent	275	13.7	244	13.3	25	22.8	21	22.4
TOTAL	3,210	160.0	2,769	150.8	399	364.4	300	320.6
Age: 45-64								
Cancer	3,136	254.3	2,942	253.5	150	295.7	41	123.8
Heart disease	2,019	163.7	1,899	163.6	99	195.1	53	160.1
Cerebrovascular disease (stroke)	232	18.8	204	17.6	23	45.3	5	15.1
COPD ⁴	218	17.7	208	17.9	10	19.7	6	18.1
TOTAL	7,766	629.6	7,223	622.4	452	891.0	194	586.0
Age: 65 +								
Heart disease	14,510	1,728.4	14,159	1,741.1	295	1,531.0	78	752.4
Cancer	10,203	1,215.3	9,868	1,213.4	283	1,468.8	48	463.0
Cerebrovascular disease (stroke)	3,047	362.9	2,942	361.8	84	436.0	18	173.6
Pneumonia & Influenza	2441	290.8	2,392	294.1	32	166.1	9	86.8
TOTAL	42,769	5,094.5	41,518	5,105.3	1,044	5,418.3	242	2,334.3

¹ Persons of Hispanic ethnicity are also included in the race categories, consistent with the U.S. Census population classification. ² Number of deaths per 100,000 persons in each age group. ³ Calculations based on fewer than five events are excluded. ⁴ The NCHS categories for 72 selected causes of death combines Homicide (ICD9 E960-969) and Legal Intervention (ICD9 E970-978). In addition to a total of 90 Homicides in the 15-24 age group, there was 1 Black death due to Legal Intervention. ⁵ Chronic Obstructive Pulmonary Disease.

**Table C-6. Heart Disease and Cancer Deaths by Race and Sex,
Age-Adjusted Rates¹, Massachusetts: 1970-1994**

Heart Disease

Year	White		Black	
	Male	Female	Male	Female
1970	355.2	168.9	331.5	181.6
1975	306.4	141.1	307.4	166.5
1980	282.9	135.6	296.2	166.8
1985	254.7	121.9	266.4	158.6
1990	192.5	96.3	222.8	119.0
1994	168.7	85.3	188.6	97.7

Cancer

Year	White		Black	
	Male	Female	Male	Female
1970	166.0	113.0	242.7	126.0
1975	172.4	116.4	210.4	113.3
1980	169.4	117.7	235.8	128.3
1985	170.7	121.4	207.5	120.8
1990	166.8	117.3	187.8	119.5
1994	162.5	111.9	202.9	141.2

¹ All rates are age adjusted per 100,000 residents using the 1940 U.S. Census standard population.

**Table C-7. Cancer Deaths by Selected Causes¹, Age-Adjusted Rates²,
Massachusetts: 1994**

Cause of Death	ICD-9 Code	Total		Female		Male	
		#	Rate ³	#	Rate	#	Rate
Total Cancer Deaths	140-208	13,888	132.6	6,938	112.4	6,950	163.4
Esophagus	150	311	3.1	93	1.3	218	5.4
Stomach	151	383	3.4	157	2.2	226	5.2
Colon, rectum, rectosigmoid junction & anus	153-154	1,613	13.8	836	11.1	777	17.6
Pancreas	157	689	6.4	369	5.1	320	8.0
Trachea, bronchus and lung	162	3,623	36.9	1,526	26.9	2,097	51.0
Melanoma of the skin	172	201	2.3	79	1.6	122	3.1
Female breast	174	1,241	22.6	1,241	22.6	---	---
Cervix	180	73	1.7	73	1.7	---	---
Body of uterus and of uterus, part unspecified	179,182	150	2.4	150	2.4	---	---
Ovary	183	362	6.7	362	6.7	---	---
Prostate	185	823	15.7	---	---	823	15.7
Bladder	188	329	2.6	121	1.4	208	4.4
Kidney and other and unspecified urinary organs	189	265	2.7	115	1.8	150	3.7
Brain and other and unspecified parts of nervous system	191,192	271	3.3	122	2.6	149	4.1
Hodgkin's disease	201	47	0.6	27	0.6	20	0.6
Non-Hodgkin's lymphoma	200,202 (except 202.4)	601	5.7	317	4.7	284	6.9
Multiple myeloma and other immunoproliferative neoplasms	203	250	2.2	120	1.6	130	3.1
Leukemia	202.4, 204-208	461	4.6	226	3.7	235	5.8
All other cancers	Residual	2,195	20.7	1,004	14.3	1,191	29.0

¹ The grouping of ICD-9 codes for selected causes of cancers used in this document has been updated from previous years. ² All rates are age-adjusted by the direct method using the 1940 U.S. Census population. Rates are per 100,000 population. The total resident population is used to calculate all "Total Rates" except for ICD-9 174 and 183, which are based on the total female population, and ICD-9 185, which is based on the total male population.

Table C-8. Injury Deaths by Sex, Age, and Race/Ethnicity, Numbers and Age-Specific Rates¹, All Persons, Massachusetts: 1994

Cause of death (ICD-9 code)		Motor vehicle ² (E810-E825)		Suicide (E950-E959)		Homicide ³ (E960-E969)		Other injury ⁴ (E800-E809,E826-E949,E970-E999)	
Race	Age	# ⁵	Rate	#	Rate	#	Rate	#	Rate
All races	All ages	484	7.4	508	7.5	232	4.0	1,212	13.8
	<1 ⁶	0	-- ⁷	0	--	3	--	9	10.7
	1-14	17	1.6	3	--	8	.7	39	3.6
	15-24	119	13.5	65	7.4	90	10.2	57	6.5
	25-44	168	8.4	230	11.5	88	4.4	400	19.9
	45-64	78	6.3	120	9.7	27	2.2	177	14.4
	65+	102	12.1	90	10.7	15	1.8	529	63.0
White	All ages	461	7.6	484	7.7	138	2.5	1,120	13.5
	<1	0	0	0	0	2	--	6	8.2
	1-14	17	1.8	2	--	6	.6	28	2.9
	15-24	110	14.0	60	7.6	42	5.3	53	6.7
	25-44	158	8.6	219	11.9	54	2.9	357	19.4
	45-64	75	6.5	116	10.0	21	1.8	164	14.1
	65+	101	12.4	87	10.7	12	1.5	512	63.0
Black	All ages	14	4.2	17	5.4	89	27.0	73	21.3
	<1	0	--	0	--	1	--	3	--
	1-14	0	--	1	--	1	--	8	9.7
	15-24	4	--	3	--	45	76.5	3	--
	25-44	8	7.3	8	7.3	33	30.1	35	32.0
	45-64	2	--	4	--	6	11.8	11	21.7
	65+	0	--	1	--	3	--	13	67.5
Hispanic ⁸	All ages	24	8.8	15	5.5	38	12.5	49	18.7
	<1	0	0	0	0	0	0	2	--
	1-14	1	--	0	0	3	--	6	7.0
	15-24	6	10.5	3	--	17	29.8	7	12.3
	25-44	13	13.9	10	10.7	16	17.1	24	25.6
	45-64	2	--	1	--	2	--	7	21.1
	65+	2	--	1	--	0	0	3	--

¹ Number of deaths per 100,000 persons in each age group; rates for "All ages" are age-adjusted. ² Motor vehicle deaths include deaths to occupants, pedestrians, motorcyclists and bicyclists. ³ The NCHS categories for 72 selected causes of death combines Homicide (ICD9 960-969) and Legal Intervention (ICD9 970-978). In addition to 232 Homicides there were three deaths caused by Legal Intervention (1 white male, age 25-44; 1 black male, age 15-24; 1 black male, age 25-44,) which are included under "Other injury." ⁴ Other injuries includes deaths from drowning, fire and falls. ⁵ Column sum may not equal total because age or race of some decedents was not known. ⁶ The denominator used in this age group is the number of 1994 resident births. ⁷ Calculations based on fewer than five events are excluded. ⁸ Persons of Hispanic ethnicity are also included in the race categories, consistent with the U.S. Census population classification.

Table C-8. (Continued) Injury Deaths by Sex, Age, and Race/Ethnicity, Numbers and Age-Specific Rates¹, Females, Massachusetts: 1994

Cause of death (ICD-9 code)		Motor vehicle ² (E810-E825)		Suicide (E950-E959)		Homicide ³ (E960-E969)		Other injury ⁴ (E800-E809,E826- E949,E970-E999)	
Race	Age	# ⁵	Rate	#	Rate	#	Rate	#	Rate
All races	All ages	133	3.8	113	3.2	51	1.7	450	7.1
	<1 ⁶	0	---	0	---	2	---	5	12.2
	1-14	7	---	0	---	3	---	15	2.9
	15-24	28	6.4	11	2.5	18	4.1	9	2.0
	25-44	40	3.9	53	5.2	15	1.5	76	7.5
	45-64	25	3.9	28	4.4	7	1.1	47	7.3
	65+	33	6.3	21	4.0	5	1.0	298	57.0
White	All ages	122	3.8	107	3.3	41	1.4	425	6.9
	<1	0	0	0	0	1	---	3	---
	1-14	7	1.5	0	0	3	---	9	1.9
	15-24	25	6.3	10	2.5	14	3.5	9	2.3
	25-44	34	3.7	52	5.6	11	1.2	71	7.6
	45-64	24	4.0	26	4.3	6	1.0	44	7.3
	65+	32	6.3	19	3.7	5	1.0	289	57.0
Black	All ages	7	4.0	2	1.5	8	4.6	20	10.9
	<1	0	0	0	---	1	0	2	---
	1-14	0	0	0	0	0	0	5	12.2
	15-24	1	---	0	0	2	---	0	0
	25-44	5	---	0	0	4	---	4	---
	45-64	1	---	2	---	1	---	3	---
	65+	0	---	0	---	0	---	6	50.8
Hispanic ⁸	All ages	4	2.9	0	0	10	6.7	11	8.3
	<1	0	0	0	0	0	0	2	---
	1-14	0	0	0	0	2	---	1	---
	15-24	1	---	0	0	5	17.8	2	---
	25-44	2	---	0	0	2	---	3	---
	45-64	1	---	0	0	1	---	2	---
	65+	0	0	0	0	0	0	1	---

¹ Number of deaths per 100,000 females in each age group; rates for "All ages" are age-adjusted. ² Motor vehicle deaths include deaths to occupants, pedestrians, motorcyclists and bicyclists. ³ The NCHS categories for 72 selected causes of death combine Homicide (ICD9 960-969) and Legal Intervention (ICD9 970-978). There were no deaths due to Legal Intervention among females. ⁴ Other injuries includes deaths from drowning, fire and falls. ⁵ Column sum may not equal total because age or race of some decedents was not known. ⁶ The denominator used in this age group is the number of 1994 resident births. ⁷ Calculations based on fewer than five events are excluded. ⁸ Persons of Hispanic ethnicity are also included in the race categories, consistent with the U.S. Census population classification.

Table C-8. (Continued) Injury Deaths by Sex, Age, and Race/Ethnicity, Numbers and Age-Specific Rates¹, Males, Massachusetts: 1994

Cause of death (ICD-9 code)		Motor vehicle ² (E810-E825)		Suicide (E950-E959)		Homicide ³ (E960-E969)		Other injury ⁴ (E800-E809,E826-E949,E970-E999)	
Race	Age	# ⁵	Rate	#	Rate	#	Rate	#	Rate
All races	All ages	351	11.3	395	12.1	181	6.3	762	21.2
	<1 ⁶	0	0	0	0	1	---	4	---
	1-14	10	1.8	3	---	5	.9	24	4.4
	15-24	91	20.8	54	12.3	72	16.4	48	10.9
	25-44	128	12.9	177	17.9	73	7.4	324	32.7
	45-64	53	9.0	92	15.6	20	3.4	130	22.0
	65+	69	21.8	69	21.8	10	3.2	231	73.0
White	All ages	339	11.8	377	12.5	97	3.6	695	20.7
	<1	0	0	0	0	1	---	3	---
	1-14	10	2.0	2	---	3	---	19	3.9
	15-24	85	21.6	50	12.7	28	7.1	44	11.2
	25-44	124	13.7	167	18.4	43	4.7	286	31.5
	45-64	51	9.2	90	16.2	15	2.7	120	21.6
	65+	69	22.5	68	22.2	7	2.3	223	72.9
Black	All ages	7	4.4	15	9.7	81	51.2	53	33.5
	<1	0	0	0	0	0	0	1	---
	1-14	0	0	1	---	1	---	3	---
	15-24	3	---	3	---	43	148.3	3	---
	25-44	3	---	8	15.0	29	54.4	31	58.2
	45-64	1	---	2	---	5	21.5	8	34.4
	65+	0	0	1	---	3	---	7	93.9
Hispanic ⁸	All ages	20	15.5	15	11.6	28	18.4	38	29.8
	<1	0	0	0	0	0	0	0	0
	1-14	1	--	0	0	1	---	5	11.4
	15-24	5	17.2	3	---	12	41.4	5	17.2
	25-44	11	23.8	10	21.6	14	30.2	21	45.4
	45-64	1	--	1	---	1	---	5	32.6
	65+	2	--	1	---	0	0	2	---

¹ Number of deaths per 100,000 males in each age group; rates for "All ages" are age-adjusted. ² Motor vehicle deaths include deaths to occupants, pedestrians, motorcyclists and bicyclists. ³ The NCHS categories for 72 selected causes of death combine Homicide (ICD9 960-969) and Legal Intervention (ICD9 970-978). In addition to 181 Homicides, there were three deaths caused by Legal Intervention (1 white male, age 25-44; 1 black male, age 15-24; 1 black male, age 25-44) which are included under "Other injury". ⁴ Other injuries includes deaths from drowning, fire and falls. ⁵ Column sum may not equal total because age or race of some decedents was not known. ⁶ The denominator used in this age group is the number of 1994 resident births. ⁷ Calculations based on fewer than five events are excluded. ⁸ Persons of Hispanic ethnicity are also included in the race categories, consistent with the U.S. Census population classification.

Table C-9. Selected Causes of Cancer Deaths by Age: Total, Massachusetts: 1994

Age	Cause of death ¹	ICD-9 Code	Number	Age-specific rate ²
1 - 14	Leukemia	202.4, 204-208	7	0.7
	Brain & other unspecified parts of the nervous system	191	3	--- ³
	Hodgkin's disease	201	1	---
	Cervix uteri	180	1	2.1
	TOTAL		22	
15 - 24	Leukemia	202.4, 204-208	16	1.8
	Brain & other unspecified parts of the nervous system	191	5	0.6
	Hodgkin's disease	201	2	---
	Colon, rectum	153-154	2	---
	TOTAL		32	3.6
25 - 44	Female breast	174	92	9.1 ⁴
	Trachea, bronchus & lung	162	64	3.2
	Brain & other unspecified parts of the nervous system	191	42	2.1
	TOTAL		494	24.6
45 - 64	Trachea, bronchus & lung	162	933	75.6
	Female breast	174	362	56.3 ⁴
	Colon, rectum	153-154	277	22.5
	TOTAL		3,136	254.3
65 +	Trachea, bronchus & lung	162	2,626	312.8
	Colon, rectum	153-154	1,308	155.8
	Female breast	174	787	150.4 ⁴
	TOTAL		10,203	1,215.3

¹ The grouping of ICD-9 codes for selected causes of cancers used in this document has been updated from previous years. ² Number of deaths per 100,000 residents in each age group. ³ Calculations based on fewer than five events are excluded. ⁴ Calculation based on female population in specified age group.

Table C-9. (Continued) Selected Causes of Cancer Deaths by Age: Females, Massachusetts: 1994

Age	Cause of death ¹	ICD-9 Code	Number	Age-specific rate ²
1 - 14	Leukemia	202.4, 204-208	1	-- ³
	Brain & other unspecified parts of the nervous system	191	1	---
	Cervix uteri	180	1	---
	TOTAL		4	---
15 - 24	Leukemia	202.4, 204-208	8	1.8
	Brain & other unspecified parts of the nervous system	191	2	---
	Hodgkin's disease	201	2	---
	TOTAL		16	3.6
25 - 44	Female breast	174	92	9.1
	Trachea, bronchus & lung	162	26	2.6
	Brain & other unspecified parts of the nervous system	191	22	2.2
	TOTAL		279	27.5
45 - 64	Trachea, bronchus & lung	162	377	58.6
	Female breast	174	362	56.3
	Ovary	183	122	19.0
	TOTAL		1,479	230.0
65 +	Trachea, bronchus & lung	162	1,123	214.6
	Female breast	174	787	150.4
	Colon, rectum	153-154	706	134.9
	TOTAL		5,160	986.2

¹ The grouping of ICD-9 codes for selected causes of cancers used in this document has been updated from previous years. ²Number of deaths per 100,000 residents in each age group. ³ Calculations based on fewer than five events are excluded.

**Table C-9. (Continued) Selected Causes of Cancer Deaths by Age: Males,
Massachusetts: 1994**

Age	Cause of death ¹	ICD-9 Code	Number	Age-specific rate ²
1 - 14	Leukemia	202.4, 204-208	6	1.1
	Brain & other unspecified parts of the nervous system	191	2	-- ³
	Hodgkin's disease	201	1	---
	TOTAL		18	3.3
15 - 24	Leukemia	202.4, 204-208	8	1.8
	Brain & other unspecified parts of the nervous system	191	3	---
	Colon, rectum	153-154	1	---
	Non -Hodgkin's lymphoma	200, 202.0-202.3, 202.5-202.9	1	---
	TOTAL		16	3.6
25 - 44	Trachea, bronchus & lung	162	38	3.8
	Non- Hodgkin's lymphoma	200, 202.0-202.3, 202.5-202.9	22	2.2
	Brain & other unspecified parts of the nervous system	191	20	2.0
	TOTAL		215	21.7
45 - 64	Trachea, bronchus & lung	162	556	94.2
	Colon, rectum	153-154	162	27.4
	Pancreas	157	104	17.6
	TOTAL		1,657	280.7
65 +	Trachea, bronchus & lung	162	1,503	475.2
	Prostate	185	752	237.8
	Colon, rectum	153-154	602	190.3
	TOTAL		5,043	1,594.4

¹ The grouping of ICD-9 codes for selected causes of cancers used in this document has been updated from previous years. ² Number of deaths per 100,000 residents in each age group. ³ Calculations based on fewer than five events are excluded.

**Figure C-3. Suicide, Homicide and Motor Vehicle Death Rates,
Massachusetts: 1844-1994**

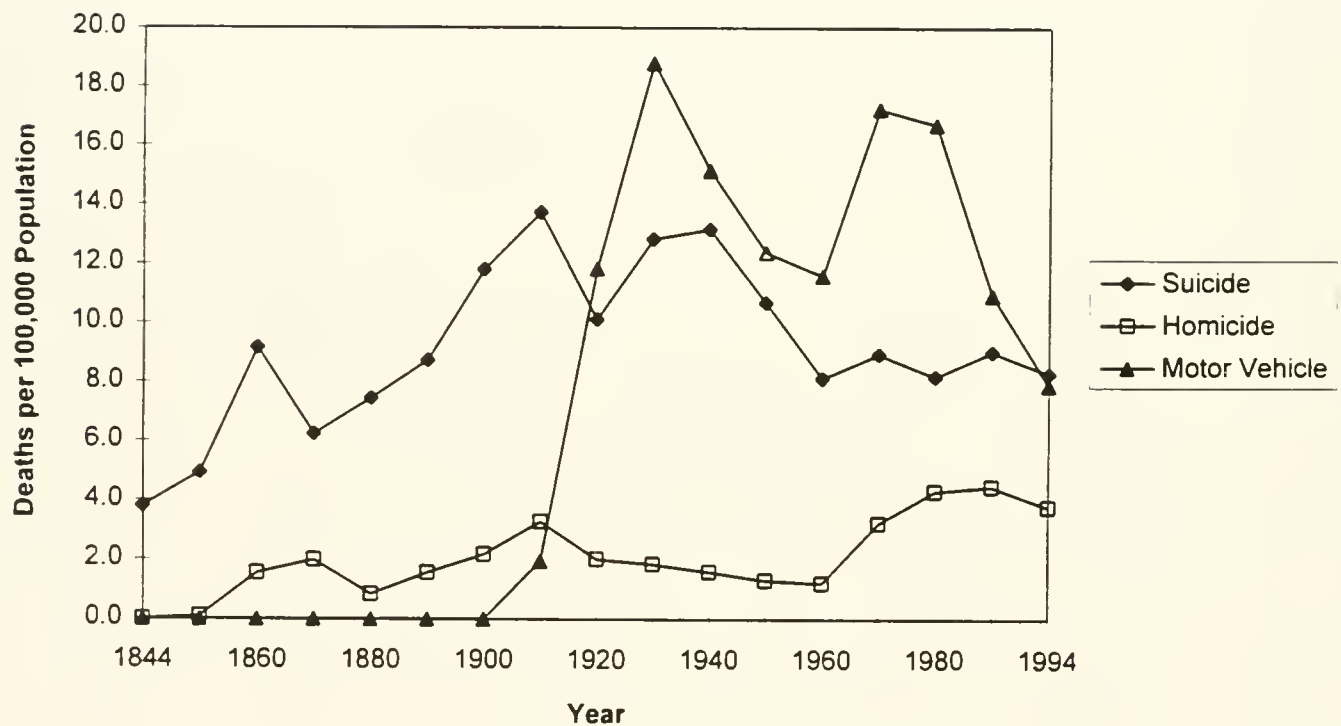


Table C-10. AIDS¹ and HIV-Related² Deaths³ by Cause, Place of Occurrence, Sex, Age and Race/Ethnicity, Massachusetts: 1987-1994⁴

Year	Total	Cause of Death			Place of Occurrence				Sex	
		AIDS ⁵	AIDS-like syndrome ⁵	Other HIV infection ⁵	At Home	Hospital	Out of State	Hospice/ Other	Female	Male
1987	# 241	233	3	5	26	207	5	3	32	209
	% 100.0	96.7	-	2.1	10.8	85.9	2.1	-	13.3	86.7
1988	# 315	303	3	9	67	234	7	7	34	281
	% 100.0	96.2	-	2.9	21.3	74.3	2.2	2.2	10.8	89.2
1989	# 404	382	1	21	79	313	7	5	45	359
	% 100.0	94.6	-	5.2	19.6	77.5	1.7	1.2	11.1	88.9
1990	# 447	427	4	16	90	284	9	64	57	390
	% 100.0	95.5	-	3.6	20.1	63.5	2.1	14.3	12.8	87.2
1991	# 632	595	3	34	159	338	4	131	97	535
	% 100.0	94.1	-	5.4	25.2	53.5	-	20.7	15.4	84.6
1992	# 701	670	6	25	171	394	14	122	96	605
	% 100.0	95.6	0.8	3.6	24.4	56.2	2.0	17.4	13.7	86.3
1993	# 777	735	3	39	218	413	14	127	114	663
	% 100%	94.6	-	5.0	28.1	53.2	1.8	16.3	14.7	85.3
1994	# 938	887	7	44	265	514	13	142	175	763
	% 100%	94.6	0.7	4.7	28.3	54.8	1.4	15.1	18.7	81.3

Year	Age					Race/Ethnicity			
	<14	15-24	25-34	35-44	45 +	White	Black	Other ⁶	Hispanic ⁷
1987	# 5	8	105	78	45	190	50	1	NA
	% 2.1	3.3	43.6	32.3	18.7	78.8	20.8	-	
1988	# 5	12	111	127	60	251	64	0	NA
	% 1.6	3.8	35.2	40.3	19.1	79.7	20.3	0.0	
1989	# 3	16	146	167	72	327	76	1	37
	% -	4.0	36.1	41.3	17.8	81.0	18.8	-	9.2
1990	# 3	4	147	197	96	352	94	1	50
	% -	-	32.8	44.1	21.5	78.8	21.0	-	11.2
1991	# 9	19	214	298	92	513	118	1	74
	% 1.4	3.0	33.8	47.2	14.6	81.2	18.7	-	14.4
1992	# 6	5	243	304	143	558	141	2	95
	% 0.8	0.7	34.7	43.4	20.4	79.6	20.1	-	13.6
1993	# 10	5	234	359	157	612	160	5	94
	% 1.3	0.6	30.1	46.2	20.2	78.7	20.6	0.6	12.1
1994	# 7	8	272	464	187	738	193	7	157
	% 0.7	0.9	29.0	49.5	19.9	78.7	20.6	0.7	16.7

¹ Acquired Immune Deficiency Syndrome. ² Human Immunodeficiency Virus. ³ The deaths reported are cases for which AIDS or HIV-related disease was the underlying cause of death. There were an additional 123 deaths for which AIDS and HIV-related diseases were mentioned conditions. Mentioned conditions are other significant conditions contributing to death, but not resulting from the underlying cause. The deaths presented were coded by using the most current ICD-9 classification schedule, which began with 1987 death data.

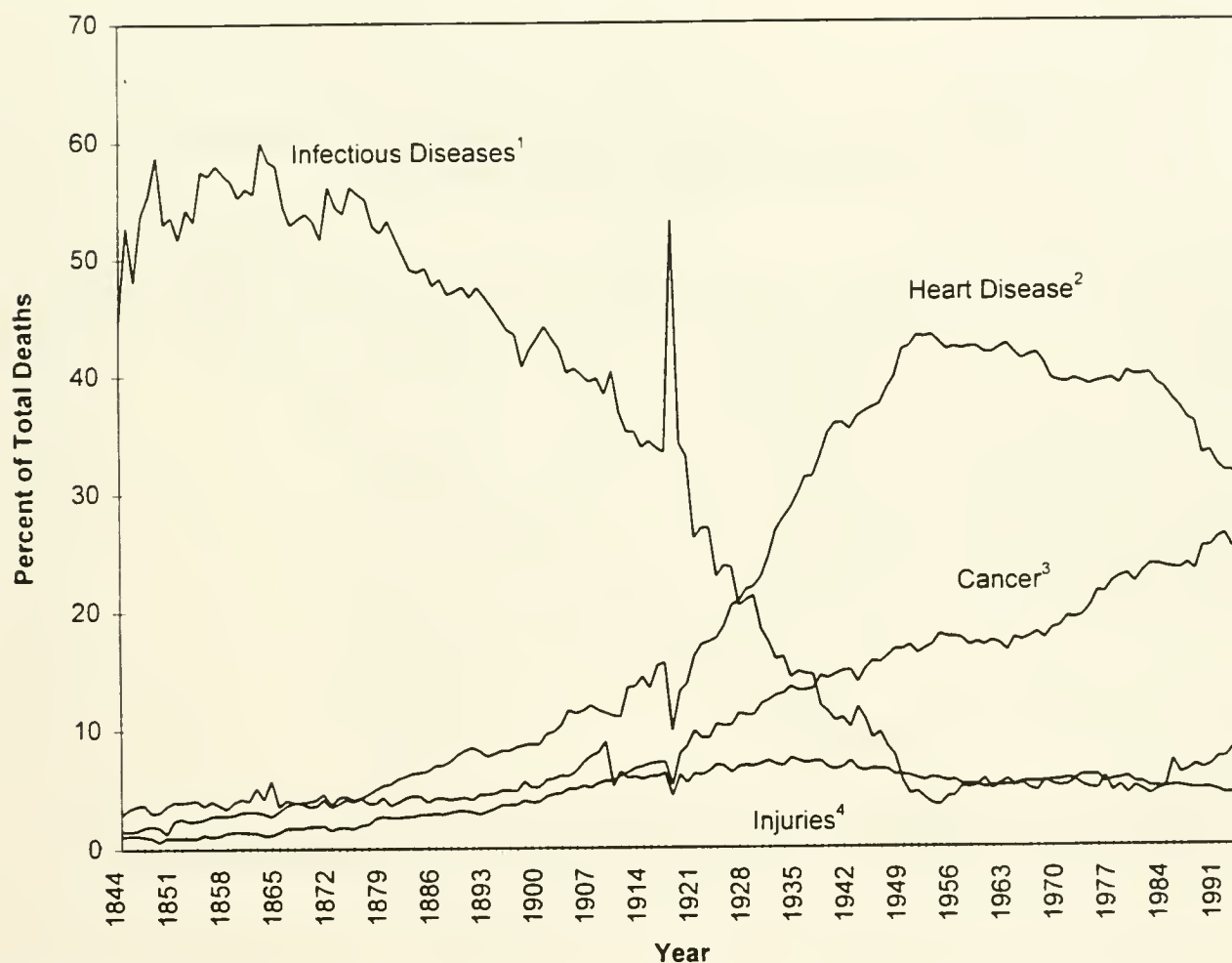
⁵ ICD Codes: AIDS-042, AIDS-like syndrome-043, Other HIV infection-044. ⁶ The "Other" category represents Asians and American Indians. Persons of Hispanic ethnicity are also included in the race categories, consistent with the U.S. Census population classification.

**Table C-10A. AIDS and HIV-Related Deaths and Death Rates by Race and Hispanic Ethnicity for Ages 25-44, Massachusetts:
1989 - 1994**

Year	White						Black						Hispanic ¹					
	Total			Female			Male			Total			Female			Total		
	#	Rate ²	Rate	#	Rate	#	Rate	#	Rate	#	Rate	#	Rate	#	Rate	#	Rate	#
1989	221	12.2	1.6	15	23.1	206	27.2	60	56.3	17	31.1	43	82.9	32	36.0	6	13.3	26
1990	270	14.7	2.4	22	24.8	248	39.7	73	65.4	23	40.4	50	91.6	40	42.4	4	3	36
1991	412	22.4	5.5	51	36.1	361	42.7	99	89.2	28	49.3	71	131.1	55	58.6	16	33.7	39
1992	441	23.8	5.2	49	39.2	392	44.2	105	93.4	26	45.3	79	143.6	79	83.2	15	31.2	64
1993	467	25.1	6.4	60	40.7	407	53.1	122	108.4	31	53.8	91	165.6	76	79.7	19	39.4	57
1994	578	31.5	10.4	97	48.1	481	53.1	152	138.8	39	69.3	113	212.2	127	135.7	34	71.9	93

¹Persons of Hispanic ethnicity are also included in the race categories, consistent with the U.S. Census population classification. ²Number of deaths per 100,000 residents in the specified population group. ³Calculations based on fewer than five events are excluded.

**Figure C-4. Trends in Deaths from Selected Causes, Massachusetts:
1844-1994**



¹ The category of infectious diseases includes Infectious and Parasitic Diseases (ICD-9 codes 001-139) and Pneumonia and Influenza (ICD-9 codes 480-487).

² Heart Disease ICD-9 codes 390-398, 402, 404-429.

³ Cancer ICD-9 codes 140-208.

⁴ Injuries ICD-9 codes E800-E999.

Table C-11. Selected Causes of Cancer Deaths and Age-Adjusted Rates by Race & Ethnicity, Massachusetts: 1994^{1,2}

White			Black			Hispanic ³		
Cause	Number	Rate	Cause	Number	Rate	Cause	Number	Rate
Trachea, bronchus and lung	3,497	37.1	Trachea, bronchus and lung	113	41.6	Colon, rectum	14	8.2
Colon, rectum	1,552	13.6	Colon, rectum	48	17.3	Female breast	12	12.6
Female breast	1,184	22.5	Female breast	48	28.5	Trachea, bronchus and lung	10	5.8
Prostate	784	15.4	Prostate	33	29.1	Non-Hodgkin's lymphoma	8	5.0
Total Cancer	13,311	131.9	Total Cancer	470	167.2	Total Cancer	108	64.9

¹ The grouping of ICD-9 codes for selected causes of cancers used in this document has been updated from previous years. ² All rates are age-adjusted by the direct method using the 1940 U.S. Census population. Rates are per 100,000 population. ³ Persons of Hispanic ethnicity are also included in the race categories, consistent with the U.S. Census population classification.

Figure C-5. Expected Years of Life Remaining for Males and Females by Race, Massachusetts: 1994

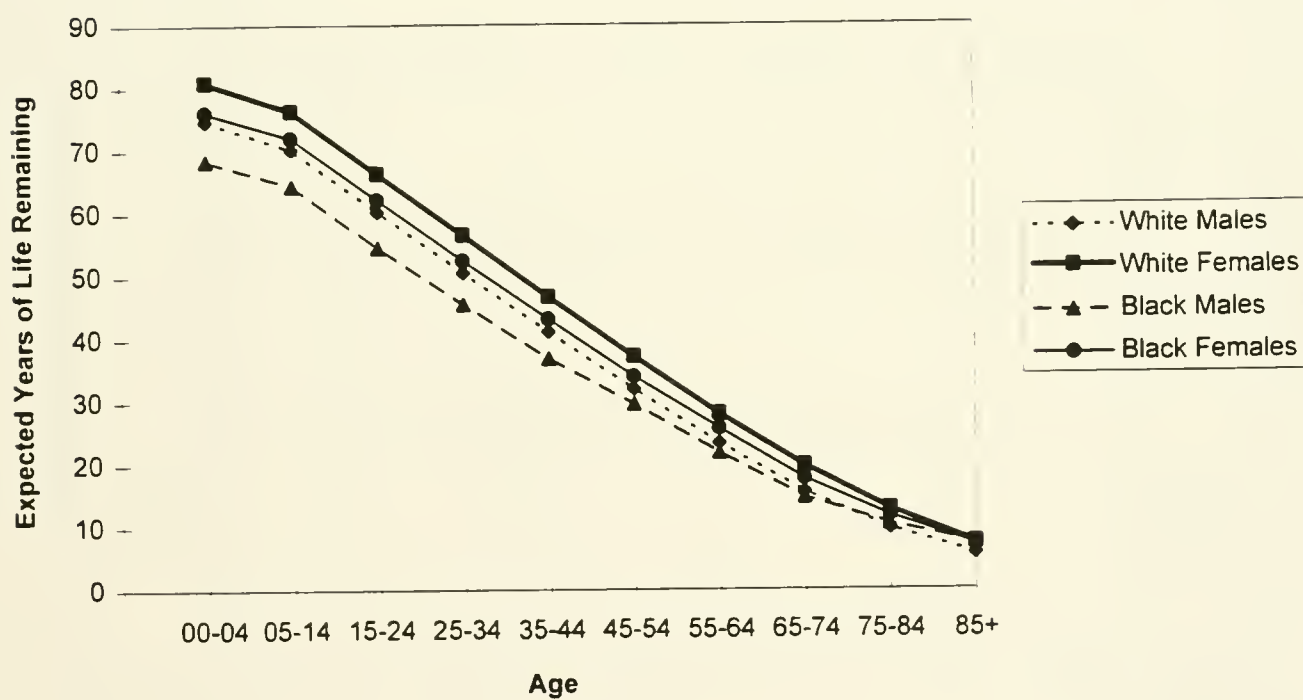


Table C-12. Medical Examiner Certified Deaths by Cause, Race, Sex and Age, Massachusetts Occurrence: 1994

Age	Race/Sex	Total Deaths Certified by Medical Examiner	Motor Vehicle Injuries (E810-E825)	Suicide (E950-E959)	Homicide (E960-E969)	Legal Intervention/ Undeter. Injury (E970-E999)	All Other Injuries (E800-E809, E826-E949)	Non-violent Causes (I000-779)	Ill-Defined & Unknown Causes (780-799)
TOTAL ¹	White M	2,583	314	368	99	269	252	1,269	12
	F	1,198	117	106	40	74	121	736	4
	Black M	268	7	16	82	31	18	111	3
	F	81	8	2	8	7	9	47	0
	Other M	39	3	3	3	5	9	16	0
< 1	F	15	4	3	2	1	0	5	0
	Total	4,188	453	498	235	387	410	2,186	19
	White M	11	0	0	1	0	3	7	0
	F	14	0	0	1	0	2	11	0
	Black M	4	0	0	0	0	1	3	0
1-14	F	6	0	0	1	1	1	3	0
	Other M	0	0	0	0	0	0	0	0
	F	0	0	0	0	0	0	0	0
	Total	35	0	0	3	1	7	24	0
	White M	42	10	2	3	0	19	8	0
15-19	F	23	7	0	3	0	10	2	1
	Black M	8	0	1	1	0	3	3	0
	F	7	0	0	0	1	4	2	0
	Other M	4	0	0	1	0	2	1	0
	F	0	0	0	0	0	0	0	0
15-19	Total	84	17	3	8	1	38	16	1
	White M	93	41	17	14	5	10	6	0
	F	32	11	5	7	3	1	5	0
	Black M	22	1	2	16	1	0	2	0
	F	1	0	0	1	0	0	0	0
15-19	Other M	3	2	0	0	0	1	0	0
	F	4	2	1	0	0	0	0	0
	Total	155	57	25	39	9	12	13	0

¹ Total includes one white male of unknown age, one black male of unknown age, and one male of unknown age and unknown race.

Table C-12 (continued): Medical Examiner Certified Deaths by Cause, Race, Sex and Age, Massachusetts Occurrence: 1994

Age	Race/Sex	Total Deaths Certified by Medical Examiner		Motor Vehicle Injuries (E810-E825)		Suicide (E950-E959)	Homicide (E960-E969)	Legal Intervention/ Undeter. Injury (E970-E999)		All Other Injuries (E800-E809, E826-E949)	Non-violent Causes (I000-779)	Ill-Defined & Unknown Causes (780-799)
20-29	White M	285		76		70	31	46		24	34	4
	F	86		20		15	8	21		1	20	1
	Black M	59		2		2	36	5		3	10	1
	F	6		3		0	1	0		0	2	0
	Other M	5		0		2	1	1		1	0	0
30-39	F	2		0		1	1	0		0	0	0
	Total	443		101		90	78	73		29	66	6
	White M	456		57		88	24	113		45	126	3
	F	137		19		28	6	26		7	49	2
	Black M	62		3		7	13	13		4	21	1
40-49	F	14		4		0	3	3		0	4	0
	Other M	7		0		0	1	4		1	1	0
	F	2		0		0	0	0		0	2	0
	Total	678		83		123	47	159		57	203	6
	White M	461		36		60	13	85		30	235	2
50-59	F	132		12		22	10	19		10	59	0
	Black M	46		0		1	9	8		5	23	0
	F	14		1		1	1	2		1	8	0
	Other M	9		0		1	0	0		1	7	0
	F	4		1		0	0	1		0	2	0
50-59	Total	666		50		85	33	115		47	334	2
	White M	314		18		42	4	13		26	209	2
	F	102		10		15	1	2		8	66	0
	Black M	25		1		2	3	2		0	16	1
	F	10		0		1	1	0		0	8	0
50-59	Other M	7		1		0	0	0		2	4	0
	F	0		0		0	0	0		0	0	0
	Total	458		30		60	9	17		36	303	3

Table C-12 (continued). Medical Examiner Certified Deaths by Cause, Race, Sex and Age, Massachusetts Occurrence: 1994

Age	Race/Sex	Total Deaths Certified by Medical Examiner		Motor Vehicle Injuries (E810-E825)	Suicide (E950-E959)	Homicide (E960-E969)	Legal Intervention/ Undeter. Injury (E970-E999)	All Other Injuries (E800-E809, E826-E949)	Non-violent Causes (000-779)	Ill-Defined & Unknown Causes (780-799)
60-69	White M	351		23	32	6	6	27	256	1
	F	154		12	10	0	3	13	116	0
	Black M	23		0	0	2	1	2	18	0
	F	7		0	0	0	0	0	7	0
	Other M	2		0	0	0	0	0	2	0
70-79	F	0		0	0	0	0	0	0	0
	Total	537		35	42	8	10	42	399	1
	White M	327		28	31	1	0	33	234	0
	F	227		15	6	3	0	21	182	0
	Black M	15		0	1	2	1	0	11	0
≥ 80	F	9		0	0	0	0	2	7	0
	Other M	1		0	0	0	0	0	1	0
	F	2		0	1	0	0	0	1	0
	Total	581		43	39	6	1	56	436	0
	White M	243		25	26	2	1	35	154	0
≥ 80	F	291		11	5	1	0	48	226	0
	Black M	4		0	0	0	0	0	4	0
	F	7		0	0	0	0	1	6	0
	Other M	1		0	0	0	0	1	0	0
	F	1		1	0	0	0	0	0	0
≥ 80	Total	547		37	31	3	1	85	390	0

Figure C-6. Proportion of Deaths Certified by Medical Examiner for Selected Causes of Death, Massachusetts Occurrence Deaths: 1994

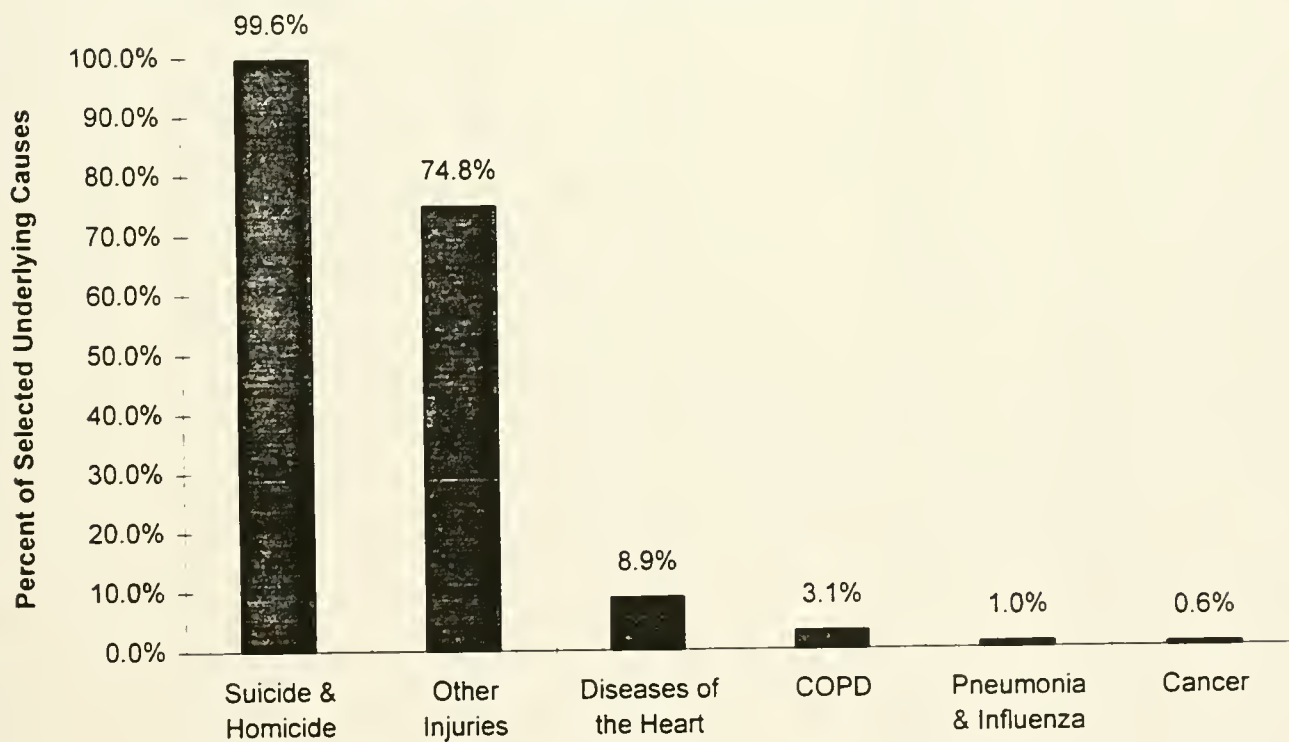
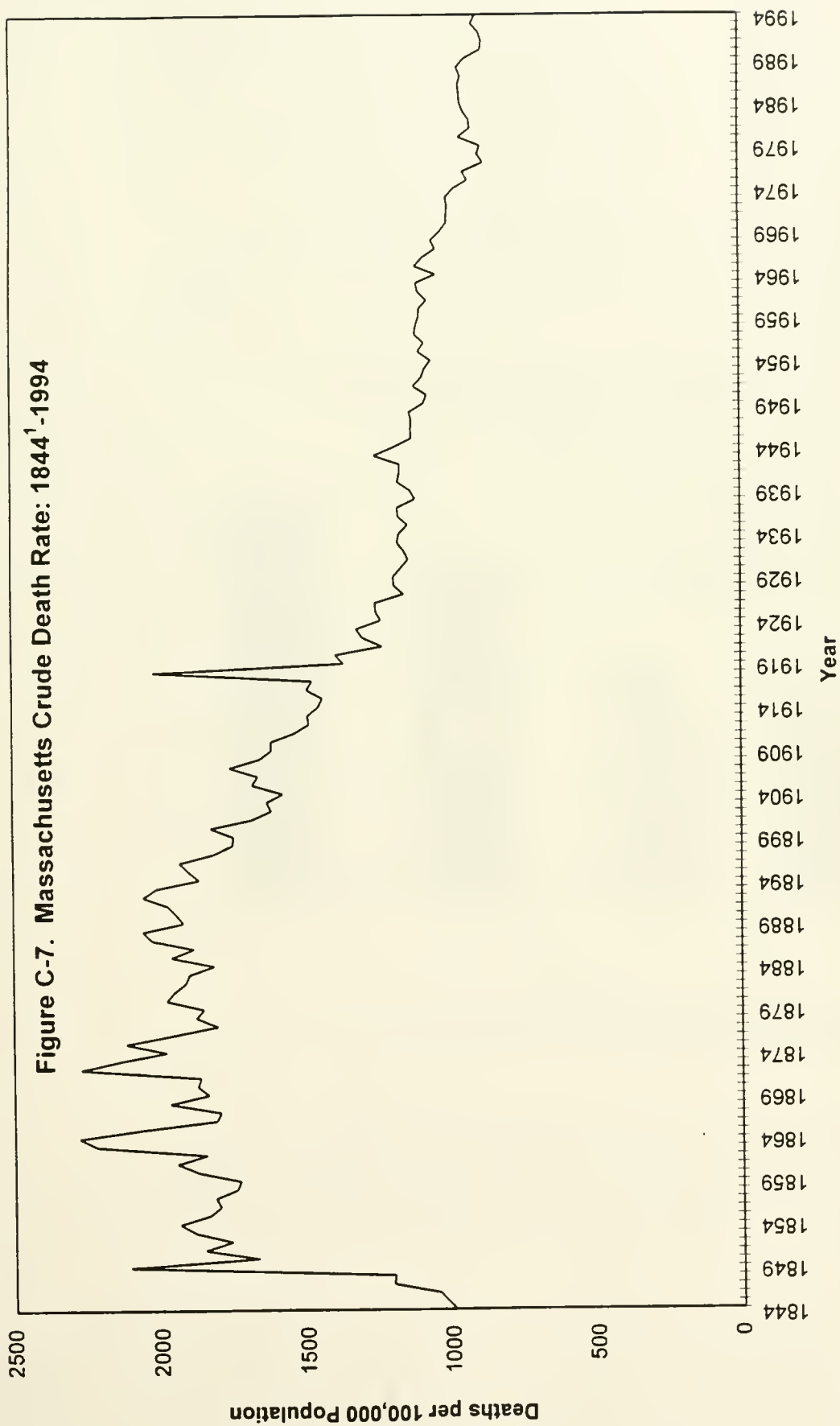


Table C-13. Medical Examiner Certified Deaths by County, Massachusetts Occurrence: 1994

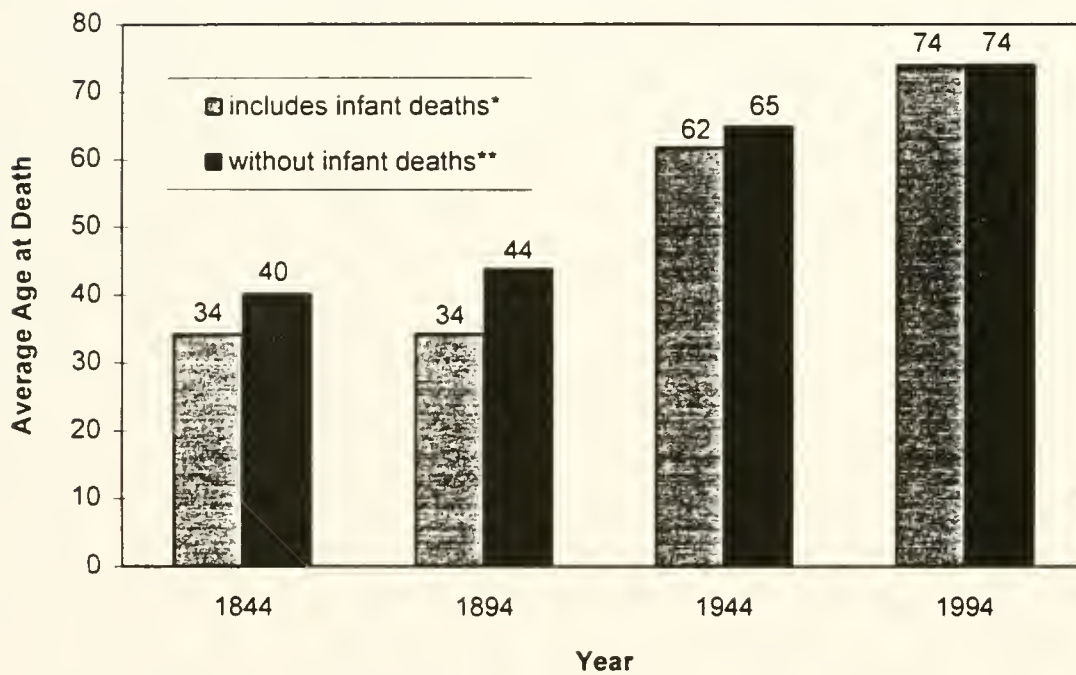
County		Population	Occurrence Deaths	M.E. Certified ¹	Referred--Not Certified By M.E. ¹	Natural Cause Deaths Certified by M.E. ²
TOTAL	#	6,105,460	55,630	4,290	9,612	2,207
	%	100.0	100.0	7.7	17.3	51.4
	Rank	--	--	--	--	--
Barnstable	#	202,712	2,258	257	315	172
	%	3.3	4.1	11.4	13.9	66.9
	Rank	9	9	2	10	2
Berkshire	#	139,388	1,636	119	263	71
	%	2.3	2.9	7.3	16.1	59.7
	Rank	11	10	7	9	3
Bristol	#	504,001	4,455	311	765	151
	%	8.2	8.0	7.0	17.2	48.6
	Rank	6	7	9	6	10
Dukes	#	12,645	104	23	5	13
	%	0.2	0.2	22.1	4.8	56.5
	Rank	13	13	1	13	8
Essex	#	675,197	6,075	513	753	301
	%	11.1	10.9	8.4	12.4	58.7
	Rank	4	4	5	12	4
Franklin	#	72,005	505	38	68	22
	%	1.2	0.9	7.5	13.5	57.9
	Rank	12	12	6	11	7
Hampden	#	454,169	4,845	319	1,017	136
	%	7.4	8.7	6.6	21.0	42.6
	Rank	7	6	10	2	13
Hampshire	#	150,678	953	63	201	27
	%	2.5	1.7	6.6	21.1	42.9
	Rank	10	11	10	1	12
Middlesex	#	1,419,911	11,054	678	2,025	361
	%	23.3	19.9	6.1	18.3	53.2
	Rank	1	1	13	4	9
Nantucket	#	6,927	65	3	0	3
	%	0.1	0.1	4.6	0.0	100.0
	Rank	14	14	14	14	1
Norfolk	#	635,641	4,929	311	897	181
	%	10.4	8.9	6.3	18.2	58.2
	Rank	5	5	12	5	6
Plymouth	#	439,304	3,057	303	511	178
	%	7.2	5.5	9.9	16.7	58.7
	Rank	8	8	3	8	4
Suffolk	#	679,260	8,946	874	1,499	391
	%	11.1	16.1	9.8	16.8	44.7
	Rank	3	2	4	7	11
Worcester	#	713,622	6,748	478	1,293	200
	%	11.7	12.1	7.1	19.2	41.8
	Rank	2	3	8	3	14

¹ The percentages and ranks in the Medical Examiner Certified Deaths column and the Referred--Not Certified by Medical Examiner column are based on the totals in the Occurrence Deaths column. ² The percentages and ranks of natural cause deaths certified by medical examiners are based on the total number of medical examiner certified deaths for each county.



¹ In 1842, the Massachusetts legislature mandated a statewide registration of vital statistics by community. However, there was not full participation by every community in the initial years.

**Figure C-8. Average Age at Death
Massachusetts: 1844-1994**



* The calculation of average age at death includes deaths to infants under the age of 1.

** The calculation of average age at death does not include infant deaths.

Table C-14A. Selected Causes of Death by Municipality, Massachusetts: 1994

MUNICIPALITY	Total #	Total Death Rate ¹	Heart Disease #	Total Cancer #	Lung Cancer #	Breast ² Cancer #	Stroke #	Motor Vehicle #	Homicide #	Pneumonia & Influenza #	COPD ³ #	Diabetes Mellitus #	Suicide #
STATE TOTAL	54914	453.6	16902	13888	3623	1241	3343	484	232	2635	2351	1352	508
ABINGTON	144	547.81	51	39	14	2	5	1	1	6	7	2	0
ACTON	90	338.46	28	22	1	4	7	2	0	4	2	1	1
ACUSHNET	82	420.04	32	22	4	2	7	1	0	4	0	3	0
ADAMS	113	442.39	57	15	1	0	9	0	0	6	2	0	1
AGAWAM	268	411.26	81	54	19	5	19	0	0	23	16	9	3
ALFORD	7	587.81	3	2	0	0	1	1	0	0	0	0	0
AMESBURY	160	548.60	51	41	9	5	12	2	0	14	6	4	1
AMHERST	115	432.64	34	20	6	2	8	2	0	4	2	3	2
ANDOVER	203	363.21	64	56	11	4	18	2	0	8	6	1	3
ARLINGTON	478	397.15	166	105	19	7	25	3	0	24	17	9	5
ASHBURNHAM	26	277.63	5	10	2	3	0	2	0	2	2	2	1
ASHBY	17	412.90	2	7	2	1	1	0	1	0	1	1	0
ASHFIELD	3	100.49	3	0	0	0	0	0	0	0	0	0	0
ASHLAND	85	452.69	25	27	6	0	4	0	0	5	7	0	1
ATHOL	137	501.13	56	27	8	2	5	1	0	7	6	2	1
ATTLEBORO	332	457.43	106	72	20	9	28	3	1	19	15	9	2
AUBURN	136	418.29	46	45	10	7	6	2	0	6	6	5	0
AVON	40	411.48	12	11	5	1	1	1	0	0	3	2	0
AYER	66	700.71	15	16	4	4	4	0	0	2	3	3	1
BARNSTABLE	493	434.70	120	125	43	7	39	5	3	22	24	25	7
BARRE	33	312.28	14	8	1	0	0	0	0	2	3	2	1
BECKET	9	301.07	2	4	2	0	0	1	0	0	0	1	0
BEDFORD	131	438.72	35	30	6	1	10	1	0	6	7	6	0
BELCHERTOWN	91	483.09	30	22	9	2	3	0	1	5	4	2	3
BELLINGHAM	75	364.08	26	16	6	3	6	1	0	4	2	2	0
BELMONT	249	336.55	67	69	11	7	25	1	0	19	4	7	2
BERKLEY	31	527.86	15	5	3	1	1	0	0	1	1	2	0
BERLIN	14	376.71	4	4	1	0	0	0	0	1	0	0	0
BERNARDSTON	16	401.30	3	5	2	0	0	1	0	1	2	0	0

Table C-14A. Selected Causes of Death by Municipality, Massachusetts: 1994

MUNICIPALITY	Total #	Total Death Rate ¹	Heart Disease #	Total Cancer #	Lung Cancer #	Breast ² Cancer #	Stroke #	Motor Vehicle #	Homicide #	Pneumonia & Influenza #	COPD ³ #	Diabetes Mellitus #	Suicide #
BEVERLY	414	478.05	130	83	24	8	31	3	2	27	17	13	6
BILLERICA	218	461.03	74	56	14	11	11	3	0	9	9	6	1
BLACKSTONE	55	376.74	17	16	2	3	1	1	0	2	1	2	0
BLANDFORD	6	191.37	3	0	0	0	0	0	0	1	0	0	0
BOLTON	12	253.14	2	5	0	1	1	1	0	1	0	0	0
BOSTON	4922	528.55	1231	1141	321	102	277	44	79	265	187	119	48
BOURNE	179	531.70	59	49	6	2	9	4	0	5	7	4	3
BOXBOROUGH	10	272.69	5	2	0	0	0	0	0	1	0	1	0
BOXFORD	27	265.48	8	5	0	2	2	1	0	5	0	2	1
BOYLSTON	33	585.67	8	13	4	3	0	0	0	0	1	0	0
BRAINTREE	382	435.02	120	90	20	11	20	1	0	21	17	8	1
BREWSTER	109	399.46	32	21	5	1	7	2	0	6	6	4	0
BRIDGEWATER	125	467.90	35	38	10	3	10	3	0	5	4	1	2
BRIMFIELD	24	361.22	8	5	1	0	0	0	0	2	0	1	1
BROCKTON	855	574.84	239	212	58	25	55	12	8	47	44	21	5
BROOKFIELD	30	467.25	13	8	3	0	2	0	0	2	1	0	0
BROOKLINE	445	316.23	151	108	25	10	27	5	1	16	12	9	0
BUCKLAND	12	362.82	4	0	0	0	1	0	0	1	1	0	1
BURLINGTON	140	426.44	33	47	19	5	5	5	0	3	7	3	2
CAMBRIDGE	681	470.65	203	163	32	18	26	1	2	38	32	19	6
CANTON	182	426.59	54	60	12	10	11	0	0	11	7	6	1
CARLISLE	14	188.19	4	3	0	1	0	1	0	3	1	0	0
CARVER	81	422.40	31	26	7	3	3	0	0	2	6	0	0
CHARLEMONT	7	358.35	4	0	0	0	0	1	0	1	0	0	0
CHARLTON	58	327.12	22	8	5	0	1	1	0	4	4	0	2
CHATHAM	104	334.40	30	27	6	3	16	0	0	4	3	2	1
CHELMSFORD	235	419.80	78	69	11	10	11	5	1	11	5	5	4
CHELSEA	358	696.45	109	82	22	6	19	1	2	12	17	12	3
CHESHIRE	23	366.63	11	6	2	3	0	0	0	0	1	0	0
CHESTER	12	455.24	5	3	1	0	0	0	0	0	0	0	0

Table C-14A. Selected Causes of Death by Municipality, Massachusetts: 1994

MUNICIPALITY	Total #	Total Death Rate ¹	Heart Disease #	Total Cancer #	Lung Cancer #	Breast ² Cancer #	Stroke #	Motor Vehicle #	Homicide #	Pneumonia & Influenza #	COPD ³ #	Diabetes Mellitus #	Suicide #
CHESTERFIELD	4	189.88	2	1	0	0	0	0	0	0	0	0	0
CHICOPEE	634	493.04	204	165	40	15	49	4	2	25	34	15	6
CHILMARK	10	407.33	3	3	0	0	2	0	0	0	0	0	0
CLARKSBURG	10	239.56	4	3	0	0	0	0	0	0	0	0	0
CLINTON	149	587.35	43	50	15	4	8	0	1	11	4	5	1
COHASSET	56	280.86	17	14	3	1	3	0	0	5	1	1	4
COLRAIN	20	467.49	8	8	3	0	1	0	0	0	0	0	0
CONCORD	158	367.03	52	31	8	0	17	0	0	12	5	5	1
CONWAY	12	470.62	1	5	1	1	2	0	0	1	0	0	1
CUMMINGTON	5	340.11	3	1	0	0	0	0	0	0	0	0	0
DALTON	77	510.53	29	15	3	1	1	1	0	6	5	2	0
DANVERS	290	496.60	104	70	21	4	15	3	0	23	10	3	5
DARTMOUTH	245	408.32	83	73	15	4	17	2	1	6	12	6	1
DEDHAM	216	350.09	68	62	19	3	11	0	0	8	9	3	4
DEERFIELD	23	243.67	9	5	1	0	2	0	0	0	0	1	0
DENNIS	224	476.86	64	58	15	10	19	1	0	9	9	11	2
DIGHTON	44	421.72	12	12	4	2	4	1	0	1	1	4	1
DOUGLAS	35	404.35	8	9	2	1	0	1	0	0	1	1	0
DOVER	37	354.91	7	11	2	1	0	0	0	3	1	1	0
DRACUT	186	448.83	55	66	20	4	15	3	0	4	7	0	1
DUDLEY	79	449.49	20	16	7	0	3	3	0	5	3	3	4
DUNSTABLE	13	298.85	5	3	2	0	0	0	0	1	0	0	0
DUXBURY	98	293.21	27	25	5	2	9	2	0	2	4	1	1
EAST BRIDGEWATER	117	665.43	29	37	7	3	3	2	0	7	7	2	1
EAST BROOKFIELD	13	344.52	5	3	1	0	1	0	0	0	1	0	0
EAST LONGMEADOW	155	388.13	52	39	10	4	12	0	0	6	5	3	1
EASTHAM	42	294.98	9	14	2	1	2	0	0	1	1	1	1
EASTHAMPTON	151	531.31	53	42	11	5	8	5	0	5	3	4	2

Table C-14A. Selected Causes of Death by Municipality, Massachusetts: 1994

MUNICIPALITY	Total #	Total Death Rate ¹	Heart Disease #	Total Cancer #	Lung Cancer #	Breast ² Cancer #	Stroke #	Motor Vehicle #	Homicide #	Pneumonia & Influenza #	COPD ³ #	Diabetes Mellitus #	Suicide #
EASTON	130	419.58	31	35	6	4	7	3	0	11	9	2	1
EDGARTOWN	28	279.76	13	7	2	1	2	0	0	1	0	0	1
EGREMONT	12	276.36	2	6	1	0	1	0	0	0	0	0	1
ERVING	10	321.69	3	3	0	0	1	0	0	1	0	0	0
ESSEX	33	582.32	14	8	2	1	0	0	0	1	0	0	0
EVERETT	431	578.75	131	112	27	15	27	2	1	1	2	1	2
FAIRHAVEN	235	589.32	79	69	18	6	12	1	2	17	28	11	9
FALL RIVER	1130	550.25	397	270	70	9	105	7	6	5	12	2	1
FALMOUTH	330	439.73	99	89	25	6	29	4	0	38	36	41	8
FITCHBURG	392	477.29	121	88	23	10	32	2	1	11	21	3	1
FLORIDA	8	639.29	3	2	2	0	1	0	0	20	17	11	0
FOXBOROUGH	105	391.04	26	30	10	6	1	2	0	0	0	1	0
FRAMINGHAM	514	390.38	156	120	37	9	25	2	3	3	10	2	0
FRANKLIN	147	438.44	36	47	13	4	6	2	1	33	21	9	5
FREETOWN	45	389.85	17	10	1	1	3	1	0	4	16	2	2
GARDNER	232	499.87	79	57	11	4	16	1	0	1	3	1	2
GAY HEAD	3	243.90	1	1	0	0	0	0	0	7	11	4	3
GEORGETOWN	53	508.02	18	11	3	0	1	0	0	0	0	0	0
GILL	6	210.49	4	1	0	0	1	0	0	1	5	0	0
GLOUCESTER	322	464.23	94	73	17	3	17	0	1	0	0	0	0
GOSHEN	4	195.10	0	1	1	0	1	0	0	15	15	11	6
GOSNOLD	2	709.58	1	1	0	0	1	0	0	1	0	0	0
GRAFTON	107	460.84	26	35	13	0	0	0	0	1	0	0	0
GRANBY	39	392.32	12	7	3	0	7	1	0	9	7	1	4
GRANVILLE	9	253.42	3	0	0	0	2	1	0	2	5	2	0
GREAT BARRINGTON	132	657.13	50	24	6	3	1	0	0	2	0	0	0
GREENFIELD	196	441.88	53	40	15	3	8	0	0	2	0	0	0
GROTON	35	264.20	11	12	0	3	19	1	2	9	6	1	2
GROVELAND	46	546.13	13	12	4	2	4	0	0	15	10	8	1
										4	0	0	0
										0	4	1	1

Table C-14A. Selected Causes of Death by Municipality, Massachusetts: 1994

MUNICIPALITY	Total #	Total Death Rate ¹	Heart Disease #	Total Cancer #	Lung Cancer #	Breast ² Cancer #	Stroke #	Motor Vehicle #	Homicide #	Pneumonia & Influenza #	COPD ³ #	Diabetes Mellitus #	Suicide #
HADLEY	33	350.25	8	9	3	1	1	2	0	3	2	1	0
HALIFAX	59	454.29	14	14	1	3	4	0	0	3	3	1	0
HAMILTON	39	318.07	2	12	3	1	2	1	0	1	1	2	1
HAMPDEN	50	485.42	15	10	2	0	6	0	0	3	0	0	0
HANCOCK	4	395.21	0	1	0	0	0	0	0	0	0	0	1
HANOVER	93	520.79	37	24	5	2	5	1	1	2	2	3	2
HANSON	55	440.72	20	11	3	1	4	0	0	4	4	1	0
HARDWICK	20	414.76	7	6	1	1	1	0	0	0	1	0	1
HARVARD	20	301.60	5	9	4	0	1	0	0	0	0	0	2
HARWICH	170	468.70	43	52	13	5	8	1	0	8	5	2	3
HATFIELD	30	378.28	10	9	3	1	2	0	0	1	0	1	1
HAVERHILL	519	481.97	207	101	32	7	27	7	1	27	18	7	4
HAWLEY	2	197.83	0	1	1	0	0	0	0	0	0	0	0
HEATH	5	379.10	1	1	0	0	0	0	0	0	0	0	0
HINGHAM	164	393.90	55	39	13	2	12	1	0	10	9	6	1
HINSDALE	29	702.45	8	11	3	0	0	1	0	1	3	2	0
HOLBROOK	105	505.05	37	23	5	4	1	1	1	4	6	4	1
HOLDEN	138	386.37	51	33	9	5	8	0	0	11	2	2	0
HOLLAND	12	372.96	3	6	1	1	0	0	0	0	0	0	0
HOLLISTON	64	353.06	17	19	6	0	3	2	0	2	3	2	0
HOLYOKE	567	694.47	158	120	27	11	46	3	4	23	30	18	3
HOPEDALE	51	424.93	17	8	3	0	0	0	0	4	5	2	1
HOPKINTON	46	330.81	10	12	6	1	5	0	0	0	0	0	1
HUBBARDSTON	14	381.14	3	4	0	0	0	0	0	0	0	0	1
HUDSON	124	419.17	41	31	6	2	5	2	0	5	7	4	1
HULL	94	616.08	32	24	14	1	1	3	0	2	6	2	0
HUNTINGTON	5	190.30	1	3	0	1	0	0	0	0	0	0	1
IPSWICH	114	403.31	41	34	6	6	3	1	0	2	3	3	2
KINGSTON	108	579.68	36	34	6	6	4	1	0	4	9	1	1
LAKEVILLE	75	479.35	25	17	6	3	5	0	0	7	5	1	1

Table C-14A. Selected Causes of Death by Municipality, Massachusetts: 1994

MUNICIPALITY	Total #	Total Death Rate ¹	Heart Disease #	Total Cancer #	Lung Cancer #	Breast ² Cancer #	Stroke #	Motor Vehicle #	Homicide #	Pneumonia & Influenza #	COPD ³ #	Diabetes Mellitus #	Suicide #
LANCASTER	33	246.28	14	6	4	0	2	2	0	2	1	0	0
LANESBOROUGH	20	317.19	7	5	0	0	2	0	0	0	1	1	0
LAWRENCE	602	565.24	213	137	31	8	26	2	8	16	26	19	10
LEE	64	444.90	16	15	6	2	3	1	0	6	0	5	1
LEICESTER	81	452.08	28	22	9	4	4	1	0	5	0	3	0
LENOX	87	480.69	26	17	3	3	4	0	0	5	8	4	0
LEOMINSTER	325	444.32	108	84	16	4	20	2	0	21	10	9	2
LEVERETT	10	400.87	7	1	0	0	1	0	0	0	0	0	0
LEXINGTON	273	341.85	88	72	15	5	12	2	1	12	8	6	3
LEYDEN	2	193.70	0	2	1	0	0	0	0	0	0	0	0
LINCOLN	25	202.95	6	6	1	3	3	0	0	0	2	0	1
LITTLETON	63	466.84	18	15	9	0	1	1	0	2	1	3	3
LONGMEADOW	170	398.19	64	31	7	5	11	3	0	9	7	2	1
LOWELL	1020	597.76	340	252	67	21	61	11	6	55	36	24	10
LUDLOW	149	377.16	59	33	5	2	8	2	1	6	5	4	1
LUNENBURG	65	429.98	14	21	7	1	2	1	0	4	3	2	1
LYNN	859	576.90	247	227	57	16	58	9	14	35	28	18	6
LYNNFIELD	81	325.37	27	28	4	1	2	0	0	4	4	1	0
MALDEN	510	464.81	171	119	39	8	32	5	3	18	20	12	3
MANCHESTER	44	305.55	12	9	2	2	8	0	0	1	4	1	2
MANSFIELD	86	414.12	20	28	6	4	5	5	0	4	1	3	4
MARBLEHEAD	177	334.58	53	53	13	9	17	1	0	6	3	6	0
MARION	63	628.61	17	18	2	0	3	2	0	1	3	1	1
MARLBOROUGH	274	455.66	78	74	22	14	8	4	0	18	17	4	4
MARSHFIELD	140	430.76	37	45	19	6	5	1	1	6	7	6	2
MASHPEE	64	401.19	14	19	6	1	2	0	0	2	2	1	1
MATTAPOISETT	48	367.68	17	13	0	2	4	0	0	1	1	3	0
MAYNARD	80	413.17	20	22	7	3	4	1	0	6	3	6	0
MEDFIELD	57	313.60	21	21	5	3	1	0	0	3	1	0	0
MEDFORD	598	413.17	192	148	38	14	43	5	1	31	18	7	4

Table C-14A. Selected Causes of Death by Municipality, Massachusetts: 1994

MUNICIPALITY	Total #	Total Death Rate¹	Heart Disease #	Total Cancer #	Lung Cancer #	Breast² Cancer #	Stroke #	Motor Vehicle #	Homicide #	Pneumonia & Influenza #	COPD³ #	Diabetes Mellitus #	Suicide #
MEDWAY	73	439.87	24	22	6	0	3	1	0	4	7	2	0
MELROSE	304	391.78	86	80	14	6	31	2	0	15	14	11	0
MENDON	33	535.22	11	12	3	0	1	2	0	0	0	0	0
MERRIMAC	25	301.29	10	8	4	0	0	0	0	0	1	0	1
METHUEN	412	425.84	170	100	27	10	14	3	0	11	23	14	0
MIDDLEBOROUGH	161	535.18	61	37	12	1	3	3	0	11	5	4	3
MIDDLEFIELD	1	34.63	1	0	0	0	0	0	0	0	0	0	0
MIDDLETON	33	317.54	11	11	4	2	0	1	0	1	1	1	2
MILFORD	208	414.52	67	53	16	2	14	4	1	13	7	6	1
MILLBURY	130	478.58	48	29	9	1	6	1	0	7	4	5	1
MILLIS	54	507.28	17	18	8	1	2	1	0	0	2	0	2
MILLVILLE	21	599.29	7	6	1	2	0	0	0	1	1	1	1
MILTON	274	425.31	93	66	11	9	20	0	0	15	14	9	1
MONROE	2	524.19	1	0	0	0	0	0	0	0	1	0	0
MONSON	64	412.49	23	14	5	1	2	0	0	2	4	3	2
MONTAGUE	92	525.36	28	24	5	2	6	3	0	5	7	2	0
MONTEREY	6	214.36	2	1	0	0	0	0	0	0	0	0	1
MONTGOMERY	3	217.84	2	0	0	0	1	0	0	0	0	0	0
MOUNT WASHINGTON	0	0.00	0	0	0	0	0	0	0	0	0	0	0
NAHANT	44	376.92	12	12	3	1	4	0	0	1	2	1	0
NANTUCKET	71	498.16	13	28	7	2	6	0	0	1	7	2	0
NATICK	250	346.38	90	75	20	8	15	2	1	9	7	8	0
NEEDHAM	255	311.52	80	82	14	11	13	2	0	14	5	5	1
NEW ASHFORD	0	0.00	0	0	0	0	0	0	0	0	0	0	0
NEW BEDFORD	1049	530.06	369	235	57	24	67	7	2	28	43	25	6
NEW BRAINTREE	1	61.80	0	1	0	0	0	0	0	0	0	0	0
NEW MARLBOROUGH	8	224.24	4	1	1	0	1	0	0	0	0	0	0
NEW SALEM	10	745.74	3	2	0	0	0	0	0	0	0	0	0

Table C-14A. Selected Causes of Death by Municipality, Massachusetts: 1994

MUNICIPALITY	Total #	Total Death Rate ¹	Heart Disease #	Total Cancer #	Lung Cancer #	Breast ² Cancer #	Stroke #	Motor Vehicle #	Homicide #	Pneumonia & Influenza #	COPD ³ #	Diabetes Mellitus #	Suicide #
PETERSHAM	11	313.50	2	3	3	0	1	0	0	2	2	0	0
PHILLIPSTON	13	780.41	6	3	3	1	0	1	0	1	0	0	0
PITTSFIELD	525	502.26	152	138	31	16	32	1	1	26	18	17	7
PLAINFIELD	1	112.62	1	0	0	0	0	0	0	0	0	0	0
PLAINVILLE	40	288.41	12	9	1	1	0	0	0	1	2	1	0
PLYMOUTH	399	470.31	137	86	24	5	27	4	0	19	21	6	5
PLYMPTON	7	224.73	2	2	0	0	2	0	0	0	0	0	0
PRINCETON	15	294.71	4	4	2	1	2	1	0	0	0	0	0
PROVINCETOWN	65	832.15	11	12	5	1	2	1	0	4	0	2	0
QUINCY	954	473.30	281	236	61	23	60	5	3	36	51	19	6
RANDOLPH	256	391.14	88	70	20	8	21	2	0	10	13	1	2
RAYNHAM	72	419.47	27	22	6	1	2	1	0	3	5	0	0
READING	171	362.63	59	53	12	4	9	1	0	3	7	3	0
REHOBOTH	53	353.85	10	14	2	0	5	0	0	3	2	2	5
REVERE	473	472.55	169	117	33	8	28	1	4	18	18	11	3
RICHMOND	13	364.97	5	2	2	0	1	0	0	0	4	0	0
ROCHESTER	19	301.50	6	6	4	0	0	1	0	0	0	1	0
ROCKLAND	152	608.79	40	36	7	0	6	0	1	10	11	4	3
ROCKPORT	121	556.69	45	27	5	4	10	0	0	6	3	5	2
ROWE	2	106.12	1	1	0	0	0	0	0	0	0	0	0
ROWLEY	36	449.50	13	11	3	0	3	1	0	2	1	1	0
ROYALSTON	2	122.51	1	1	0	0	0	0	0	0	0	0	0
RUSSELL	6	239.25	3	1	0	0	0	0	0	0	0	0	0
RUTLAND	28	320.84	10	9	2	1	1	1	0	1	2	0	0
SALEM	377	446.23	123	108	28	9	30	3	0	15	10	5	2
SALISBURY	60	428.85	27	11	5	0	1	0	1	3	3	1	2
SANDISFIELD	2	121.23	1	1	1	0	0	0	0	0	0	0	0
SANDWICH	140	378.02	37	35	10	2	6	4	0	5	11	3	2
SAUGUS	271	505.62	80	70	20	10	19	1	1	6	21	4	1
SAVOY	4	368.30	0	3	3	0	0	0	0	0	1	0	0

Table C-14A. Selected Causes of Death by Municipality, Massachusetts: 1994

MUNICIPALITY	Total #	Total Death Rate ¹	Heart Disease #	Total Cancer #	Lung Cancer #	Breast ² Cancer #	Stroke #	Motor Vehicle #	Homicide #	Pneumonia & Influenza #	COPD ³ #	Diabetes Mellitus #	Suicide #
SCITUATE	161	496.49	46	46	15	3	5	3	1	10	9	4	1
SEEKONK	99	390.83	25	29	8	2	9	0	0	4	3	4	3
SHARON	74	259.84	28	18	3	4	6	0	1	3	0	1	1
SHEFFIELD	20	268.32	2	7	1	0	2	0	0	0	1	1	0
SHELBURNE	26	413.71	7	8	3	1	2	0	0	3	0	0	0
SHERBORN	16	224.36	4	5	1	0	0	1	0	2	2	0	0
SHIRLEY	26	286.54	6	8	2	0	1	0	0	2	0	0	0
SHREWSBURY	225	420.34	57	65	16	5	15	3	0	11	14	5	2
SHUTESBURY	7	308.48	3	2	0	1	0	0	0	1	0	1	0
SOMERSET	166	361.29	47	47	15	2	10	0	0	8	4	8	1
SOMERVILLE	646	500.33	196	149	39	9	27	5	2	27	39	15	6
SOUTH HADLEY	165	433.59	66	34	9	2	13	1	0	9	6	5	2
SOUTHAMPTON	45	602.54	12	14	3	1	2	0	0	1	6	3	0
SOUTHBOROUGH	37	398.91	9	14	4	2	1	1	0	2	3	0	1
SOUTHBRIDGE	182	444.40	61	48	14	5	7	2	1	13	7	3	0
SOUTHWICK	44	353.44	0	10	2	0	2	1	0	2	2	2	1
SPENCER	97	493.03	29	25	5	1	8	3	0	2	2	1	1
SPRINGFIELD	1555	581.68	466	378	108	35	85	10	18	74	67	31	11
STERLING	29	274.91	6	13	5	0	2	0	0	1	1	1	0
STOCKBRIDGE	14	272.35	3	6	1	0	0	0	0	1	1	0	0
STONEHAM	218	380.84	77	57	13	5	12	0	1	3	18	3	2
STOUGHTON	248	439.57	65	73	24	6	13	5	1	11	15	5	2
STOW	24	321.42	9	5	2	0	0	1	0	3	2	0	0
STURBRIDGE	68	433.37	25	13	3	0	6	1	0	5	2	0	0
SUDBURY	65	282.27	19	14	1	0	7	0	0	2	2	4	1
SUNDERLAND	19	611.73	2	8	2	0	0	0	0	3	3	1	1
SUTTON	49	453.98	14	15	1	1	0	0	0	0	1	0	0
SWAMPSCOTT	160	335.25	48	45	6	4	4	2	0	0	0	1	0
SWANSEA	142	460.63	48	42	14	7	7	1	0	6	5	2	0
TAUNTON	507	520.62	174	129	28	10	20	10	0	30	20	8	2
												14	5

Table C-14A. Selected Causes of Death by Municipality, Massachusetts: 1994

MUNICIPALITY	Total #	Total Death Rate ¹	Heart Disease #	Total Cancer #	Lung Cancer #	Breast ² Cancer #	Stroke #	Motor Vehicle #	Homicide #	Pneumonia & Influenza #	COPD ³ #	Diabetes Mellitus #	Suicide #
TEMPLETON	51	369.32	18	7	3	0	3	0	0	3	2	3	0
TEWKSBURY	203	480.31	69	51	17	5	18	9	0	7	6	3	3
TISBURY	35	455.51	14	11	3	0	2	2	0	0	0	0	0
TOLLAND	3	611.29	3	0	0	0	0	0	0	0	0	0	0
TOPSFIELD	36	301.72	12	11	2	3	4	0	0	0	1	1	0
TOWNSEND	53	447.20	21	16	4	2	2	0	0	5	3	1	0
TRURO	12	286.54	1	5	2	0	3	0	0	0	0	0	0
TYNGSBOROUGH	50	339.60	13	15	0	3	6	0	0	1	2	0	0
TYRINGHAM	4	443.95	2	1	0	0	0	0	0	0	0	0	0
UPTON	40	367.08	9	12	1	2	3	1	0	3	3	0	1
UXBRIDGE	74	368.22	19	20	9	0	5	0	0	7	3	3	1
WAKEFIELD	247	408.89	88	69	10	12	23	1	0	7	6	4	3
WALES	9	376.23	3	1	1	4	7	0	0	0	0	0	1
WALPOLE	150	366.96	48	44	15	4	3	3	0	6	6	4	0
WALTHAM	484	426.18	135	127	33	13	37	2	0	23	20	8	3
WARE	98	421.58	29	29	11	3	11	2	0	3	0	2	0
WAREHAM	226	499.90	75	65	15	4	10	2	1	10	11	3	2
WARREN	39	508.33	14	10	6	0	1	2	0	1	2	0	0
WARWICK	6	476.74	4	1	0	0	0	0	0	0	0	0	0
WASHINGTON	5	197.12	4	0	0	0	0	0	0	0	0	0	0
WATERTOWN	313	376.97	86	89	20	5	21	0	0	13	12	3	1
WAYLAND	88	327.51	22	19	8	0	8	1	0	11	2	0	3
WEBSTER	190	483.72	66	46	9	1	13	2	0	5	10	3	1
WELLESLEY	194	299.40	46	60	6	6	12	0	0	13	6	4	1
WELLFLEET	29	377.82	7	7	1	0	1	0	0	2	5	0	0
WENDELL	4	313.36	0	1	0	1	0	0	0	0	0	0	0
WENHAM	28	271.87	9	7	1	1	2	0	0	4	0	0	1
WEST BOYLSTON	58	395.61	17	17	3	1	4	0	0	4	3	0	1
WEST BRIDGEWATER	72	558.63	23	21	5	0	3	1	0	4	5	2	0

Table C-14A. Selected Causes of Death by Municipality, Massachusetts: 1994

MUNICIPALITY	Total #	Total Death Rate ¹	Heart Disease #	Total Cancer #	Lung Cancer #	Breast ² Cancer #	Stroke #	Motor Vehicle #	Homicide #	Pneumonia & Influenza #	COPD ³ #	Diabetes Mellitus #	Suicide #
WEST BROOKFIELD	35	383.10	12	8	2	1	1	1	0	1	2	1	0
WEST NEWBURY	22	383.91	5	6	2	1	2	0	0	1	0	1	0
WEST SPRINGFIELD	300	496.66	86	75	19	4	18	2	1	20	10	8	2
WEST STOCKBRIDGE	8	172.64	4	1	0	0	0	0	0	1	0	0	0
WEST TISBURY	5	208.23	2	1	0	0	0	0	0	0	1	0	0
WESTBOROUGH	146	440.24	31	42	7	4	8	2	0	6	9	3	0
WESTFIELD	328	447.39	110	74	26	7	17	4	0	11	19	9	7
WESTFORD	73	297.45	19	27	5	2	6	0	0	1	1	2	2
WESTHAMPTON	4	140.54	1	2	0	0	0	0	0	1	0	0	0
WESTMINSTER	46	497.72	14	13	4	0	0	0	0	1	0	0	0
WESTON	89	285.67	22	23	1	2	9	0	0	0	2	3	0
WESTPORT	95	338.66	31	30	6	5	8	1	0	9	4	1	0
WESTWOOD	125	391.93	39	37	14	5	7	2	0	0	5	3	0
WEYMOUTH	509	447.61	142	165	53	13	28	7	1	23	23	10	2
WHATELY	13	470.82	4	4	2	0	2	0	0	0	0	0	0
WHITMAN	82	460.71	23	29	8	3	5	0	1	4	4	1	3
WILBRAHAM	118	474.08	36	25	5	7	12	4	0	3	3	3	2
WILLIAMSBURG	23	322.00	10	8	1	1	2	0	0	0	1	0	0
WILLIAMSTOWN	96	368.94	34	25	7	2	9	0	0	6	3	2	0
WILMINGTON	163	548.76	42	43	19	5	10	2	0	7	13	5	2
WINCHENDON	71	434.21	22	17	5	1	7	2	0	6	5	0	1
WINCHESTER	179	337.03	58	42	8	2	18	1	0	8	5	5	1
WINDSOR	4	207.66	2	1	0	0	0	0	0	1	0	0	0
WINTHROP	225	488.16	78	57	15	4	6	1	1	14	14	1	2
WOBBURN	291	393.98	84	74	23	5	21	2	1	9	12	11	2
WORCESTER	1942	570.93	576	444	122	38	96	11	14	154	91	61	15
WORTHINGTON	5	182.77	1	1	0	0	0	0	0	1	0	0	0
WRENTHAM	89	468.94	33	16	3	2	4	0	0	2	4	1	0
YARMOUTH	346	460.82	103	74	15	6	28	3	0	18	24	13	0

¹ All rates are age adjusted using the 1940 U.S. census standard population. ² Includes only female breast cancer. ³ Chronic Obstructive Pulmonary Disease

TABLE C-14B. Selected Causes of Death by County, Massachusetts: 1994

County	Total #	Total Death Rate ¹	Heart Disease #	Total Cancer #	Lung Cancer #	Breast Cancer ² #	Stroke #	Motor Vehicle #	Homicide #	Pneumonia Influenza #	COPD ³ #	Diabetes #	Suicide #
State Total	54914	453.6	16902	13888	3623	1241	3343	484	232	2635	2351	1352	508
Barnstable	2383	434.8	644	610	159	50	174	25	3	104	122	74	21
Berkshire	1508	457.9	503	368	97	34	86	10	1	74	62	43	15
Bristol	4801	475.1	1600	1228	302	106	333	45	14	180	188	143	43
Dukes	115	363.1	46	31	7	1	8	2	0	1	2	0	1
Essex	6459	457.8	2107	1622	411	140	422	47	28	277	254	157	69
Franklin	610	422.1	191	145	44	11	43	7	2	39	26	13	4
Hampden	4607	502.4	1441	1073	287	98	299	34	27	215	207	113	42
Hampshire	1109	426.7	364	269	80	25	70	15	1	54	40	29	16
Middlesex	11526	414.1	3555	2979	737	279	723	95	24	559	477	260	106
Nantucket	71	498.2	13	28	7	2	6	0	0	1	7	2	0
Norfolk	5469	395.7	1673	1497	387	155	306	44	10	239	253	113	39
Plymouth	3764	496.5	1163	1000	275	88	199	43	16	186	196	81	37
Suffolk	5978	531.6	1587	1397	391	120	330	47	86	309	236	143	56
Worcester	6509	462.4	2015	1641	439	132	344	70	20	397	281	181	59

¹ All rates are age-adjusted using the 1940 U.S. census standard population.² Includes only female breast cancer.³ Chronic Obstructive Pulmonary Disease

Table C-14C. Selected Causes of Death by CHNA, Massachusetts: 1994

CHNA	CHNA Code	Total #	Total Death Rate ¹	Heart Disease #	Total Cancer #	Lung Cancer #	Breast Cancer ² #	Stroke #	Motor Vehicle #	Homicide #	Pneumonia Influenza #	COPD ³ #	Diabetes #	Suicide #
STATE TOTAL		54914	453.6	16902	13888	3623	1241	3343	484	232	2635	2351	1352	508
Pittsfield	1	1508	457.9	503	368	97	34	86	10	1	74	62	43	15
Greenfield	2	773	433.5	256	179	53	14	49	9	2	49	34	15	5
Holyoke	3	2592	473.1	828	619	161	54	183	25	9	111	114	71	27
Springfield	4	3015	497.2	940	697	198	67	184	24	19	154	129	67	27
Southbridge	5	1015	434.8	333	241	75	11	50	16	1	45	45	27	15
Milford	6	1289	413.4	404	339	90	26	60	23	2	64	60	34	9
Frammingham	7	2015	386.2	603	547	155	50	97	20	4	112	90	41	21
Worcester	8	2881	511.8	868	710	195	67	147	19	16	208	133	84	23
Fitchburg	9	1816	420.6	559	486	124	41	107	17	3	96	78	50	16
Lowell	10	1998	490.3	653	539	136	56	128	31	7	89	66	40	21
Lawrence	11	1466	460.4	520	355	86	27	83	12	8	40	63	42	17
Haverhill	12	1163	452.8	416	260	81	22	67	12	2	63	49	24	11
Beverly	13	1151	440.5	359	264	62	29	77	6	3	57	46	37	22
Lynn	14	2598	472.7	785	715	178	61	193	17	15	113	92	53	19
Woburn	15	2642	379.8	817	699	171	61	187	22	3	103	114	71	23
Medford	16	2595	497.7	850	635	174	55	155	15	12	110	115	54	24
Cambridge	17	2367	436.1	718	575	121	46	124	10	4	121	104	53	20
Newton	18	2460	333.0	732	681	148	69	162	12	1	132	82	50	16
Boston	19	4922	528.5	1231	1141	321	102	277	44	79	265	187	119	48
Quincy	20	2946	442.0	901	786	201	83	183	17	6	134	142	65	16
Attleboro	21	895	405.1	269	241	59	37	56	11	4	40	41	22	12
Brockton	22	1813	518.7	508	495	137	47	102	28	11	95	98	38	14
Plymouth	23	1833	457.6	579	482	137	43	96	16	5	88	100	40	23
Taunton	24	1042	478.7	349	265	69	20	49	15	0	60	42	31	18
Fall River	25	1533	488.6	523	389	105	23	130	9	6	50	48	60	11
New Bedford	26	2012	491.8	695	511	116	43	123	17	6	56	86	45	13
Cape/Island	27	2569	432.1	703	669	173	53	188	27	3	106	131	76	22

¹ All rates are age-adjusted using the 1940 U.S. census standard population. ² Includes only female breast cancer. ³ Chronic Obstructive Pulmonary Disease

TABLE C-15
RESIDENT DEATHS BY CAUSE, SEX, AND RACE
1994

ICD. LIST NUMBER	CAUSE OF DEATH	TOTALS		WHITE		BLACK		OTHER	
		TOT	MAL	TOT	MAL	TOT	MAL	TOT	MAL
		MALE	FEM	MALE	FEM	MALE	FEM	MALE	FEM
001-139	I. INFECTIVE AND PARASITIC DISEASES	1946	734	1661	641	269	187	16	11
001-009	INTestinal Infectious Diseases	32	20	31	20	1	0	0	0
004	OTHER SALMONELLA INFECTIONS	4	2	3	1	1	1	0	0
008	INTestinal Infections Due to Other Organisms	26	16	26	16	0	0	0	0
009	ILL-DEFINED INTESTINAL INFECTIONS	2	2	2	2	0	0	0	0
010-018	TUBERCULOSIS	16	8	10	6	4	2	2	2
011	PULMONARY TUBERCULOSIS	11	7	6	5	3	2	0	0
012	OTHER RESPIRATORY TUBERCULOSIS	1	1	1	1	0	0	0	0
015	TUBERCULOSIS OF BONES & JOINTS	1	0	1	0	1	0	0	0
017	TUBERCULOSIS OF OTHER ORGANS	2	2	2	2	0	0	0	0
018	MILIARY TUBERCULOSIS	1	1	1	1	0	0	0	0
020-027	ZOO NOTIC BACTERIAL DISEASES	1	0	1	0	0	0	0	0
027	OTHER ZOO NOTIC BACTERIAL DISEASES	711	304	663	276	46	28	2	2
030-041	OTHER BACTERIAL DISEASES	8	4	7	3	1	1	0	0
031	DISEASES DUE TO OTHER MYCOBACTERIA	5	3	4	1	1	1	0	0
036	MENINGOCOCCAL INFECTION	690	293	645	268	43	25	2	2
038	SEPTICEMIA	6	4	6	4	0	0	0	0
040	OTHER BACTERIAL DISEASES	2	1	1	0	1	1	0	0
041	BACTERIAL INF IN COND CE & OF UNSPEC SITE	938	763	738	615	193	143	7	5
042-044	AIDS, ARC AND ARV	887	727	699	585	181	137	7	5
042	AIDS	7	6	6	5	1	1	0	0
043	ARC, AIDS-LIKE SYNDROME	44	30	33	25	11	5	0	0
044	OTHER HIV INFECTION	17	11	17	11	0	0	0	0
045-049	POLYOMYELITIS AND OTHER ENTEROVIRUS DIS. OF CENTRAL NERVOUS SYSTEM	14	10	14	10	0	0	0	0
046	SLOW VIRUS INFECTION OF CNS	1	0	1	0	0	0	0	0
047	MENINGITIS DUE TO ENTEROVIRUS	1	1	1	1	0	0	0	0
048	OTHER ENTEROVIRUS DISEASES OF CNS	1	0	1	0	0	0	0	0
049	OTHER NON-ARTHOPOD-BORNE VIRAL DIS OF CNS	24	13	23	11	1	1	0	0
050-057	VIRAL DISEASES ACCOMPANIED BY EXANTHEM	4	2	4	2	0	0	0	0
052	CHICKENPOX	7	2	7	2	0	0	0	0
053	HERPES ZOSTER	12	8	11	7	1	1	0	0
054	HERPES SIMPLEX	1	1	1	1	0	0	0	0
057	OTHER VIRAL EXANTHEMATA	78	43	67	40	8	3	3	3
070-079	OTHER VIRAL DISEASES	67	41	57	38	7	3	0	0
070	VIRAL HEPATITIS	2	1	2	1	0	0	0	0
075	INFECTIOUS MONONUCLEOSIS	2	1	1	1	0	0	0	0
078	OTHER DIS DUE TO VIRUSES & CHLAMYDIAE	7	0	7	0	0	0	0	0
079	VIRAL INF IN COND CE & OF UNSPECIFIED SITE	5	2	5	2	0	0	0	0
090-099	SYPHILIS AND OTHER VENEREAL DISEASES	3	2	3	2	0	0	0	0
094	NEUROSYPHILIS	2	0	2	0	0	0	0	0
099	OTHER VENEREAL DISEASES	60	28	55	25	4	3	1	1
110-118	MYCOSES	23	11	21	9	2	0	0	0
112	CANDIDIASIS	37	17	34	16	2	1	1	1
117	OTHER MYCOSES	45	21	34	16	10	5	1	0
130-136	OTHER INFECTIVE AND PARASITIC DISEASES	2	2	2	0	0	0	0	0
130	TOXOPLASMOSIS	13	3	9	3	4	0	0	0
135	SARCIDOSIS	30	16	23	11	6	5	1	0
136	OTHER & UNSPECIFIED INFECTIOUS & PARASITIC DISEASES	19	6	17	5	2	1	0	0
137-139	LATE EFFECTS OF INFECTIOUS AND PARASITIC								

TABLE C-15

1994

ICD. LIST NUMBER	CAUSE OF DEATH I. INFECTIVE AND PARASITIC DISEASES (CONTINUED)	T O T A L S			W H I T E			B L A C K			O T H E R		
		TOT	MALE	FEM	TOT	MALE	FEM	TOT	MALE	FEM	TOT	MALE	FEM
137	DISEASES	1	0	1	1	0	1	0	0	0	0	0	0
138	LATE EFFECTS OF TUBERCULOSIS	11	2	9	11	2	9	0	0	0	0	0	0
139	LATE EFFECTS OF ACUTE POLIOMYELITIS	7	4	3	5	3	2	2	1	1	0	0	0
140	LATE EFFECTS OF OTH INFECT & PARASITIC DISEASES	14136	7067	7069	13548	6768	6780	480	241	239	108	58	50
140-149	MALIGNANT NEOPLASH OF LIP, ORAL CAVITY AND PHARYNX	185	127	58	177	121	56	6	4	2	2	2	0
140	MALIG NEOPLASH LIP	1	1	0	1	1	0	0	0	0	0	0	0
141	MALIG NEOPLASH TONGUE	48	37	11	45	35	10	2	1	1	1	1	0
142	MALIG NEOPLASH MAJOR SALIVARY GLANDS	15	9	6	15	9	6	0	0	0	0	0	0
144	MALIG NEOPLASH FLOOR OF MOUTH	4	3	1	3	2	1	1	1	0	0	0	0
145	MALIG NEOPLASH OTHER & UNSPECIF PARTS OF MOUTH	26	14	12	26	14	12	0	0	0	0	0	0
146	MALIG NEOPLASH OROPHARYNX	33	22	11	32	21	11	1	1	0	0	0	0
147	MALIG NEOPLASH NASOPHARYNX	16	14	2	14	12	2	1	1	0	1	1	0
148	MALIG NEOPLASH HYPOPHARYNX	15	10	5	14	10	4	1	0	1	0	0	0
149	MALIG NEOPL OTH SITES M/IN LIP, ORAL CAVITY, PHARYNX AND PERITONEUM	27	17	10	27	17	10	0	0	0	0	0	0
150-159	MALIGNANT NEOPLASH OF DIGESTIVE ORGANS	3412	1767	1645	3249	1672	1577	118	67	51	45	28	17
150	MALIG NEOPLASH ESOPHAGUS	311	218	93	296	208	88	13	10	3	2	0	2
151	MALIG NEOPLASH STOMACH	383	226	157	363	210	153	18	14	4	2	2	0
152	MALIG NEOPLASH SMALL INTESTINE INCLUDING DUODENUM	27	18	9	25	16	9	2	2	0	0	0	0
153	MALIG NEOPLASH COLON	1344	636	708	1296	614	682	38	19	19	10	3	7
154	MALIG NEOPLASH RECTUM, RECTOSIGMOID JUNCT, ANUS	269	141	128	256	134	122	10	5	5	3	2	1
155	MALIG NEOPLASH LIVER & INTRAHEPATIC BILE DUCTS	254	167	87	225	148	77	9	4	5	20	15	5
156	MALIG NEOPLASH OF GALLBLADDER & EXTRAHEPATIC BILE DUCTS	81	22	59	78	21	57	3	1	2	0	0	0
157	MALIG NEOPLASH PANCREAS	689	320	369	658	303	355	24	12	12	7	5	2
158	MALIG NEOPLASH RETROPERITONEUM & PERITONEUM	11	0	11	10	0	10	1	0	1	0	0	0
159	MALIG NEOPL OTH SITES M/IN DIGESTIVE ORGS/PERITONEUM	43	19	24	42	18	24	0	0	0	1	1	0
160-165	MALIGNANT NEOPLASH OF RESPIRATORY AND INTRATHORACIC ORGANS	3762	2192	1570	3632	2120	1512	117	65	52	13	7	6
160	MALIG NEOPLASH NASAL CAVITIES, MIDDLE EAR, SINUSES	12	3	9	12	3	9	0	0	0	0	0	0
161	MALIG NEOPLASH LARYNX	106	80	26	103	78	25	3	2	1	0	0	0
162	MALIG NEOPLASH TRACHEA, BRONCHUS, LUNG	3623	2097	1526	3497	2028	1469	113	62	51	13	7	6
163	MALIG NEOPLASH PLEURA	10	7	3	10	7	3	0	0	0	0	0	0
164	MALIG NEOPLASH THYROID, HEART, MEDIASTINUM	11	5	6	10	4	6	1	1	0	0	0	0
170-175	MALIGNANT NEOPLASH OF BONE, CONNECTIVE TISSUE, SKIN, AND BREAST	1613	228	1385	1543	222	1321	59	5	54	11	1	10
170	MALIG NEOPLASH BONE & ARTICULAR CARTILAGE	24	15	9	21	15	6	3	0	3	0	0	0
171	MALIG NEOPLASH CONNECTIVE & OTH SOFT TISSUE	87	47	40	82	45	37	4	1	3	1	1	0
172	MALIG MELANOMA OF SKIN	201	122	79	200	121	79	1	1	0	0	0	0
173	OTHER MALIG NEOPLASH SKIN	48	32	16	44	29	15	3	3	0	1	0	1
174	MALIG NEOPLASH FEMALE BREAST	1241	0	1241	1184	0	1184	48	0	48	9	0	9
175	MALIG NEOPLASH MALE BREAST	12	12	0	12	12	0	0	0	0	0	0	0
179-189	MALIGNANT NEOPLASH OF GENITOURINARY ORGANS	2061	1196	865	1973	1143	830	70	43	27	18	10	8
179	MALIG NEOPLASH UTERUS, PART UNSPECIFIED	54	0	54	53	0	53	1	0	1	0	0	0

TABLE C-15 (CONTINUED)

1994

ICD LIST NUMBER	CAUSE OF DEATH II. NEOPLASMS (CONTINUED)	T O T A L S		W H I T E		B L A C K		O T H E R		
		TOT	MALE	FEM	TOT	MALE	FEM	TOT	MALE	FEM
180	MALIG NEOPLASM CERVIX UTERI	73	0	73	66	0	66	5	0	5
182	MALIG NEOPLASM BODY OF UTERUS	96	0	96	91	0	91	4	0	4
183	MALIG NEOPLASM OVARY & OTHER UTERINE ADNEXA	367	0	367	354	0	354	9	0	9
184	MALIG NEOPLASH OTH & UNSPECF FEMALE GENITAL ORGANS	39	0	39	37	0	37	1	0	1
185	MALIG NEOPLASH PROSTATE	823	823	0	784	784	0	33	33	0
186	MALIG NEOPLASH TESTIS	8	8	0	8	8	0	0	0	0
187	MALIG NEOPLASH PENIS & OTHER MALE GENITAL ORGANS	7	7	0	6	6	0	0	0	0
188	MALIG NEOPLASH BLADDER	329	208	121	321	202	119	6	4	2
189	MALIG NEOPLASH KIDNEY & OTH & UNSPECF URINARY ORGANS	265	150	115	253	143	110	11	6	5
190-199	MALIGNANT NEOPLASH OF OTHER AND UNSPECIFIED SITES	1496	771	725	1436	741	695	48	24	24
190	MALIG NEOPLASH EYE	3	1	2	3	1	2	0	0	0
191	MALIG NEOPLASH BRAIN	269	148	121	262	145	117	5	2	3
192	MALIG NEOP OTHER & UNSPECF PARTS NERVOUS SYSTEM	2	1	1	2	1	1	0	0	0
193	MALIG NEOPLASH THYROID GLAND	33	13	20	32	12	20	1	1	0
194	MALIG NEOPLASH OTH ENDOCRINE GLANDS & RELATED	13	9	4	13	9	4	0	0	0
195	MALIG NEOPLASH OTHER & ILL-DEFINED SITES	95	61	34	87	57	30	8	4	4
199	MALIG NEOPLASH M/O SPECIFICATION OF SITE	1081	538	543	1037	516	521	34	17	17
200-208	NEOPLASMS OF LYMPHATIC AND HEMATOPOIETIC TISSUE	1359	669	690	1301	641	660	52	24	28
200	LYMPHOSARCOMA & RETICULOSARCOMA	25	17	8	24	17	7	1	0	1
201	HOUGKIN'S DISEASE	47	20	27	44	18	26	3	2	1
202	OTHER MALIG NEOP LYMPHOID & HISTIOCYTIC TISSUE	579	270	309	558	259	299	19	10	9
203	MULTIPLE MYELOMA & IMMUNOPROLIFERATIVE NEOPS	250	130	120	233	124	109	17	6	11
204	LYMPHOID LEUKEMIA	114	64	50	111	63	48	2	0	2
205	MYELOID LEUKEMIA	226	117	109	216	109	107	7	6	1
206	MONOCYTIC LEUKEMIA	2	0	2	2	0	2	0	0	0
207	OTHER SPECIFIED LEUKEMIA	3	2	1	3	2	1	0	0	0
208	LEUKEMIA OF UNSPECIFIED CELL TYPE	113	49	64	110	49	61	3	0	3
210-229	BENIGN NEOPLASMS	41	13	28	39	11	28	2	2	0
211	BENIGN NEOPLASH OTH PARTS DIGESTIVE SYSTEM	2	0	2	2	0	2	0	0	0
212	BENIGN NEOP RESPIRATORY & INTRATHORACIC ORGANS	3	1	2	3	1	2	0	0	0
215	OTH BENIGN NEOP CONNECTIVE & OTHER SOFT TISSUE	1	0	1	1	0	1	0	0	0
225	BENIGN NEOPLASH BRAIN & OTH PARTS NERVOUS SYSTEM	28	7	21	27	6	21	1	1	0
227	BENIGN NEOPLASH OTH ENDOCRINE GLANDS & RELATED	3	2	1	2	1	1	1	1	0
228	HEMANGIOMA & LYMPHANGIOMA, ANY SITE	3	2	1	3	2	1	0	0	0
229	BENIGN NEOPLASH OTH & UNSPECIFIED SITES	1	1	0	1	1	0	0	0	0
235-238	NEOPLASMS OF UNCERTAIN BEHAVIOUR	45	20	25	43	18	25	2	2	0
235	NEOPLASH OF UNCERT BEHAV DIGESTIVE & RESPIRATORY SYS	1	1	0	0	0	0	1	1	0
236	NEOPLASH OF UNCERT BEHAV GENITOURINARY ORGANS	1	1	0	1	1	0	0	0	0
237	NEOPLASH OF UNCERT BEHAV ENDOCRINE GLANDS & NERVOUS SYS	1	0	1	1	0	1	0	0	0
238	NEOPLASH UNCERT BEHAV OTHER & UNSPECF SITES & TISSUES	42	18	24	41	17	24	1	1	0
239-239	NEOPLASH OF UNSPECIFIED NATURE	162	84	78	155	79	76	6	5	1
239	NEOPLASMS OF UNSPECIFIED NATURE	162	84	78	155	79	76	6	5	1

TABLE C-15

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ICD. LIST NUMBER	CAUSE OF DEATH	TOTALS				WHITE				BLACK				OTHER			
		TOT	MALE	FEM		TOT	MALE	FEM		TOT	MALE	FEM		TOT	MALE	FEM	
*240	III. ENDOCRINE, NUTRITIONAL, AND METABOLIC DISEASES	1873	841	1032		1760	796	964		104	38	66		9	7	2	
240-246	DISORDERS OF THYROID GLAND	33	6	27		33	6	27		0	0	0		0	0	0	
240	SIMPLE AND UNSPECIFIED GOITER	2	1	1		2	1	1		0	0	0		0	0	0	
242	THYROTOXICOSIS WITH OR W/O GOITER	3	0	3		3	0	3		0	0	0		0	0	0	
244	ACQUIRED HYPOTHYROIDISM	27	5	22		27	5	22		0	0	0		0	0	0	
246	OTHER DISORDERS OF THYROID	1	0	1		1	0	1		0	0	0		0	0	0	
250-259	DISEASES OF OTHER ENDOCRINE GLANDS	1373	623	750		1287	593	694		78	24	54		8	6	2	
250	DIABETES MELLITUS	1352	614	738		1268	585	683		76	23	53		8	6	2	
251	OTH DISORDERS OF PANCREATIC INTERNAL SECRETION	5	5	0		4	4	0		1	1	0		0	0	0	
252	DISORDERS OF PARATHYROID GLAND	1	0	1		1	0	1		0	0	0		0	0	0	
253	DISORDERS OF PITUITARY GLAND & HYPOTHALMIC CONTROL	7	2	5		6	2	4		1	0	1		0	0	0	
255	DISORDERS OF ADRENAL GLANDS	2	0	2		2	0	2		0	0	0		0	0	0	
259	OTHER ENDOCRINE DISORDERS	6	2	4		6	2	4		0	0	0		0	0	0	
260-269	NUTRITIONAL DEFICIENCIES	65	27	38		65	27	38		0	0	0		0	0	0	
260	KNASHIORKOR	1	0	1		1	0	1		0	0	0		0	0	0	
261	NUTRITIONAL MARASMUS	3	2	1		3	2	1		0	0	0		0	0	0	
262	OTH SEVERE PROTEIN-CALORIE MALNUTRITION	2	0	2		2	0	2		0	0	0		0	0	0	
263	OTH & UNSPEC PROTEIN-CALORIE MALNUTRITION	56	23	33		56	23	33		0	0	0		0	0	0	
269	OTHER NUTRITIONAL DEFICIENCIES	3	2	1		3	2	1		0	0	0		0	0	0	
270-279	OTHER METABOLIC AND IMMUNITY DISORDERS	402	185	217		375	170	205		26	14	12		1	1	0	
270	DISORDERS OF AMINO-ACID TRANSPORT & METABOLISM	2	2	0		2	2	0		0	0	0		0	0	0	
272	DISORDERS OF LIPOID METABOLISM	35	20	15		34	20	14		1	0	1		0	0	0	
273	DISORDERS OF PLASMA PROTEIN METABOLISM	21	12	9		19	11	8		2	1	1		0	0	0	
274	GOUT	3	2	1		3	2	1		0	0	0		0	0	0	
275	DISORDERS OF MINERAL METABOLISM	12	5	7		12	5	7		0	0	0		0	0	0	
276	DISORDERS OF FLUID, ELECTROLYTE, ACID-BASE BALANCE	208	72	136		198	65	133		9	6	3		1	1	0	
277	OTHER & UNSPECIFIED DISORDERS OF METABOLISM	49	25	24		43	22	21		6	3	3		0	0	0	
278	OBESITY & HYPERALIMENTATION	30	13	17		27	13	14		3	0	3		0	0	0	
279	DISORDERS INVOLVING THE IMMUNE MECHANISM	42	34	8		37	30	7		5	4	1		0	0	0	
*280	IV. DISEASES OF THE BLOOD AND BLOOD-FORMING ORGANS	235	104	131		219	97	122		13	6	7		3	1	2	
280	IRON DEFICIENCY ANEMIAS	1	0	1		1	0	1		0	0	0		0	0	0	
281	OTHER DEFICIENCY ANEMIAS	5	0	5		5	0	5		0	0	0		0	0	0	
282	HEREDITARY HEMOLYTIC ANEMIAS	13	5	8		9	3	6		3	2	1		1	0	1	
283	ACQUIRED HEMOLYTIC ANEMIAS	4	2	2		4	2	2		0	0	0		0	0	0	
284	APLASTIC ANEMIA	32	13	19		30	12	18		0	0	0		2	1	1	
285	OTHER AND UNSPECIFIED ANEMIAS	57	24	33		54	24	30		3	0	3		0	0	0	
286	COAGULATION DEFECTS	33	10	23		30	9	21		3	1	2		0	0	0	
287	PURPURA & OTHER HEMORRHAGIC CONDITIONS	19	10	9		18	9	9		1	1	0		0	0	0	
288	DISEASES OF WHITE BLOOD CELLS	13	6	7		12	5	7		1	1	0		0	0	0	
289	OTHER DISEASES OF BLOOD & BLOOD-FORMING ORGANS	58	34	24		56	33	23		2	1	1		0	0	0	

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ICD. LIST NUMBER	CAUSE OF DEATH	TOTALS				WHITE				BLACK				OTHER			
		TOT	MALE	FEM		TOT	MALE	FEM		TOT	MALE	FEM		TOT	MALE	FEM	
*290-319	V. MENTAL DISORDERS	1052	358	694		1021	344	677		28	12	16		3	2	1	
290-294	ORGANIC PSYCHOTIC CONDITIONS	425	123	302		411	119	292		13	4	9		1	0	1	
290	SENILE & PRESENILE ORGANIC PSYCHOTIC CONDITIONS	412	117	295		398	113	285		13	4	9		1	0	1	
291	ALCOHOLIC PSYCHOSES	12	5	7		12	5	7		0	0	0		0	0	0	
294	OTHER ORGANIC PSYCHOTIC CONDITIONS (CHRONIC)	1	1	0		1	1	0		0	0	0		0	0	0	
295-299	OTHER PSYCHOSES	359	100	259		351	97	254		8	3	5		0	0	0	
295	SCHIZOPHRENIC DISORDERS	15	7	8		15	7	8		0	0	0		0	0	0	
296	AFFECTIVE PSYCHOSES	3	2	1		3	2	1		0	0	0		0	0	0	
298	OTHER NONORGANIC PSYCHOSES	341	91	250		333	88	245		8	3	5		0	0	0	
300-316	NEUROSES, PERSONALITY DISORDERS, AND OTHER NONPSYCHOTIC DISORDERS	252	127	125		243	120	123		7	5	2		2	2	0	
300	NEUROTIC DISORDERS	3	1	2		3	1	2		0	0	0		0	0	0	
301	PERSONALITY DISORDERS	1	0	1		1	0	1		0	0	0		0	0	0	
303	ALCOHOL DEPENDENCE SYNDROME	91	68	23		86	63	23		4	4	0		1	1	0	
304	DRUG DEPENDENCE	8	6	2		7	5	2		1	1	0		0	0	0	
305	NONDEPENDENT ABUSE OF DRUGS	30	21	9		28	20	8		1	0	1		1	1	0	
307	SPECIAL SYMPTOMS OR SYNDROMES NEC	1	0	1		1	0	1		0	0	0		0	0	0	
310	SPEC NONPSYCH MENTAL DIS DUE TO ORGANIC BRAIN DAMAGE	97	26	71		96	26	70		1	0	1		0	0	0	
311	DEPRESSIVE DISORDER NEC	21	5	16		21	5	16		0	0	0		0	0	0	
317-319	MENTAL RETARDATION	16	8	8		16	8	8		0	0	0		0	0	0	
318	OTHER SPECIFIED MENTAL RETARDATION	1	0	1		1	0	1		0	0	0		0	0	0	
319	UNSPECIFIED MENTAL RETARDATION	15	8	7		15	8	7		0	0	0		0	0	0	
*320-326	VI. DISEASES OF THE NERVOUS SYSTEM AND SENSE ORGANS	1445	622	823		1405	604	801		34	15	19		6	3	3	
320-326	INFLAMMATORY DISEASES OF THE CENTRAL NERVOUS SYSTEM	29	10	19		27	9	18		2	1	1		0	0	0	
320	BACTERIAL MENINGITIS	6	2	4		6	2	4		0	0	0		0	0	0	
322	MENINGITIS OF UNSPECIFIED CAUSE	5	4	1		5	4	1		0	0	0		0	0	0	
323	ENCEPHALITIS, MYELITIS & ENCEPHALOMYELITIS	8	0	8		7	0	7		1	0	1		0	0	0	
324	INTRACRANIAL & INTRASPINAL ABSCESS	6	4	2		5	3	2		1	1	0		0	0	0	
326	LATE EFF INTRACRANIAL ABSCESS OR PYOGENIC INFECTION	4	0	4		4	0	4		0	0	0		0	0	0	
330-337	HEREDITARY AND DEGENERATIVE DISEASES OF NERVOUS SYSTEM	1095	467	628		1072	455	617		18	9	9		5	3	2	
330	CEREBRAL DEGENERATIONS USUALLY MANIFEST IN CHILDHOOD	1	0	1		1	0	1		0	0	0		0	0	0	
331	OTHER CEREBRAL DEGENERATIONS	657	237	420		649	232	417		7	4	3		1	1	0	
332	PARKINSON'S DISEASE	275	160	115		267	157	110		7	3	4		1	0	1	
333	OTH EXTRAPYRAMIDAL DISEASE & ABN MOVEMENT DISORDERS	26	12	14		26	12	14		0	0	0		0	0	0	
334	SPINOCEREBELLAR DISEASE	8	3	5		7	3	4		1	0	1		0	0	0	
335	ANTERIOR HORN CELL DISEASE	116	49	67		111	46	65		2	1	1		3	2	1	
336	OTHER DISEASES OF SPINAL CORD	10	5	5		10	5	5		0	0	0		0	0	0	
337	DISORDERS OF AUTONOMIC NERVOUS SYSTEM	2	1	1		2	1	1		1	1	0		0	0	0	
340-349	OTHER DISORDERS OF THE CENTRAL NERVOUS SYSTEM	251	114	137		237	110	127		13	4	9		1	0	1	
340	MULTIPLE SCLEROSIS	75	26	49		71	23	48		4	3	1		0	0	0	
341	OTHER DEMYELINATING DISEASES OF CNS	1	0	1		1	0	1		0	0	0		0	0	0	
342	HEMIPLEGIA	4	1	3		4	1	3		0	0	0		0	0	0	
343	INFANTILE CEREBRAL PALSY	21	8	13		20	8	12		1	0	1		0	0	0	
344	OTHER PARALYTIC SYNDROMES	11	7	4		10	7	3		0	0	0		1	0	1	
345	EPILEPSY	16	10	6		16	10	6		0	0	0		0	0	0	

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ICD, LIST NUMBER	CAUSE OF DEATH VI. DISEASES OF THE NERVOUS SYSTEM AND SENSE ORGANS (CONTINUED)	T O T A L S			W H I T E			B L A C K			O T H E R		
		TOT	MALE	FEM	TOT	MALE	FEM	TOT	MALE	FEM	TOT	MALE	FEM
		118	59	59	110	58	52	8	1	7	0	0	0
348	OTHER CONDITIONS OF BRAIN	5	3	2	5	3	2	0	0	0	0	0	0
349	OTHER & UNSPECIFIED DISORDERS OF NERVOUS SYSTEM	69	30	39	68	29	39	1	1	0	0	0	0
350-359	DISORDERS OF PERIPHERAL NERVOUS SYSTEM	19	4	15	19	4	15	0	0	0	0	0	0
356	HEREDITARY & IDIOPATHIC PERIPHERAL NEUROPATHY	3	1	2	3	1	2	0	0	0	0	0	0
357	INFLAMMATORY & TOXIC NEUROPATHY	18	8	10	18	8	10	0	0	0	0	0	0
358	MYONEURAL DISORDERS	29	17	12	28	16	12	1	1	0	0	0	0
359	MUSCULAR DYSTROPHIES & OTHER MYOPATHIES	1	1	0	1	1	0	0	0	0	0	0	0
360-379	DISORDERS OF EYE AND ADNEXA	1	1	0	1	1	0	0	0	0	0	0	0
365	GLAUCOMA	21631	9668	11963	20909	9307	11602	611	301	310	111	60	51
*390-459	VII. DISEASES OF THE CIRCULATORY SYSTEM	4	2	2	4	2	2	0	0	0	0	0	0
390-392	ACUTE RHEUMATIC FEVER	4	2	2	4	2	2	0	0	0	0	0	0
391	RHEUMATIC FEVER WITH HEART INVOLVEMENT	124	25	99	119	25	94	3	0	3	2	0	2
393-398	CHRONIC RHEUMATIC HEART DISEASE	55	5	50	52	5	47	2	0	2	1	0	1
394	DISEASES OF MITRAL VALVE	1	0	1	1	0	1	0	0	0	0	0	0
395	DISEASES OF AORTIC VALVE	22	6	16	21	6	15	1	0	1	0	0	0
396	DISEASES OF MITRAL AND AORTIC VALVES	8	3	5	7	3	4	0	0	0	1	0	1
397	DISEASES OF OTHER ENDOCARDIAL STRUCTURES	38	11	27	38	11	27	0	0	0	0	0	0
398	OTHER RHEUMATIC HEART DISEASE	626	217	409	582	194	388	39	20	19	5	3	2
401-405	HYPERTENSIVE DISEASE	179	60	119	169	57	112	10	3	7	0	0	0
401	ESSENTIAL HYPERTENSION	318	110	208	301	99	202	13	8	5	4	3	1
402	HYPERTENSIVE HEART DISEASE	96	38	58	82	31	51	13	7	6	1	0	1
403	HYPERTENSIVE RENAL DISEASE	33	9	24	30	7	23	3	2	1	0	0	0
404	HYPERTENSIVE HEART & RENAL DISEASE	10977	5342	5635	10689	5195	5494	239	120	119	49	27	22
410-414	ISCHEMIC HEART DISEASE	4942	2428	2514	4821	2371	2450	97	43	54	24	14	10
410	ACUTE MYOCARDIAL INFARCTION	8	4	4	7	3	4	1	1	0	0	0	0
411	OTH ACUTE & SUBACUTE FORMS OF ISCHEMIC HEART DIS	14	7	7	14	7	7	0	0	0	0	0	0
412	OLD MYOCARDIAL INFARCTION	29	13	16	29	13	16	0	0	0	0	0	0
413	ANGINA PECTORIS	5984	2890	3094	5818	2801	3017	141	76	65	25	13	12
414	OTHER FORMS OF CHRONIC ISCHEMIC HEART DISEASE	280	122	158	265	114	151	15	8	7	0	0	0
415-417	DISEASES OF PULMONARY CIRCULATION	205	91	114	193	83	110	12	8	4	0	0	0
415	ACUTE PULMONARY HEART DISEASE	75	31	44	72	31	41	3	0	3	0	0	0
416	CHRONIC PULMONARY HEART DISEASE	5166	2276	2890	4980	2172	2808	161	91	70	25	13	12
420-429	OTHER FORMS OF HEART DISEASE	1	0	1	1	0	1	0	0	0	0	0	0
420	ACUTE PERICARDITIS	22	7	15	20	6	14	1	1	0	1	0	1
421	ACUTE & SUBACUTE ENDOCARDITIS	6	4	2	6	4	2	0	0	0	0	0	0
422	ACUTE MYOCARDITIS	21	10	11	18	8	10	2	1	1	1	1	0
423	OTHER DISEASES OF PERICARDIUM	420	153	267	410	148	262	7	3	4	3	2	1
424	OTHER DISEASES OF ENDOCARDIUM	525	321	204	494	301	193	26	18	8	5	2	3
425	CARDIOMYOPATHY	44	15	29	42	15	27	2	0	2	0	0	0
426	CONDUCTION DISORDERS	1460	666	794	1397	634	763	60	31	29	3	1	2
427	CARDIAC DYSRHYTHMIA	1536	529	1007	1506	514	992	27	14	13	3	1	2
428	HEART FAILURE	1131	571	560	1086	542	544	36	23	13	9	6	3
429	ILL-DEFINED DESCRIPTIONS & COMPLICATIONS HEART DIS	3343	1229	2114	3193	1168	2025	123	46	77	27	15	12
430-438	CEREBROVASCULAR DISEASE	133	39	94	118	36	82	13	2	11	2	1	1
430	SUBARACHNOID HEMORRHAGE												

TABLE C-15 (CONTINUED)

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ICD. LIST NUMBER	CAUSE OF DEATH VII. DISEASES OF THE CIRCULATORY SYSTEM (CONTINUED)	TOTALS				WHITE				BLACK				OTHER			
		TOT		FEM		TOT		MALE		FEM		TOT		MALE		FEM	
		MALE	FEM	MALE	FEM	MALE	FEM	MALE	FEM	MALE	FEM	MALE	FEM	MALE	FEM	MALE	FEM
431	INTRACEREBRAL HEMORRHAGE	422	190	232	393	174	219	21	12	9	4	8	4	4	4	4	4
432	OTH & UNSPECIFIED INTRACRANIAL HEMORRHAGE	71	29	42	65	25	40	5	4	1	0	1	0	1	0	1	0
433	OCCLUSION & STENOSIS OF CEREBRAL ARTERIES	34	24	10	34	24	10	0	0	0	0	0	0	0	0	0	0
434	OCCLUSION OF CEREBRAL ARTERIES	366	138	228	350	133	217	12	3	9	2	4	2	4	2	2	2
435	TRANSIENT CEREBRAL ISCHEMIA	5	2	3	5	2	3	0	0	0	0	0	0	0	0	0	0
436	ACUTE BUT ILL-DEFINED CEREBROVASCULAR DISEASE	1724	594	1130	1671	568	1103	44	20	24	3	9	6	3	3	3	3
437	OTH & ILL-DEFINED CEREBROVASCULAR DISEASE	250	85	165	229	80	149	19	4	15	1	2	1	1	1	1	1
438	LATE EFFECTS OF CEREBROVASCULAR DISEASE	338	128	210	328	126	202	9	1	8	1	1	1	1	1	1	1
440-448	DISEASES OF ARTERIES, ARTERIOLES, AND CAPILLARIES	1009	415	594	978	398	580	28	15	13	3	3	2	3	2	1	0
440	ATHEROSCLEROSIS	359	116	243	355	114	241	4	2	2	0	0	0	0	0	0	0
441	AORTIC ANEURYSM	409	215	194	390	204	186	18	10	8	1	1	1	1	1	0	0
442	OTHER ANEURYSM	9	2	7	8	2	6	0	0	0	0	1	0	1	0	1	0
443	OTHER PERIPHERAL VASCULAR DISEASE	144	52	92	140	49	91	3	2	1	1	1	1	1	1	0	0
444	ARTERIAL EMBOLISM & THROMBOSIS	31	11	20	31	11	20	0	0	0	0	0	0	0	0	0	0
446	POLYARTERITIS NODOSA & ALLIED CONDITIONS	29	9	20	28	9	19	1	0	1	0	0	0	0	0	0	0
447	OTHER DISORDERS OF ARTERIES & ARTERIOLES	28	10	18	26	9	17	2	1	1	1	0	0	0	0	0	0
451-459	DISEASES OF VEINS AND LYMPHATICS, AND OTHER DIS. OF CIRCULATORY SVS.	102	40	62	99	39	60	3	1	2	0	0	0	0	0	0	0
451	PHLEBITIS & THROMBOPHLEBITIS	14	4	10	13	3	10	1	1	0	0	0	0	0	0	0	0
452	PORTAL VEIN THROMBOSIS	2	1	1	2	1	1	0	0	0	0	0	0	0	0	0	0
453	OTHER VENOUS EMBOLISM & THROMBOSIS	3	0	3	3	0	3	0	0	0	0	0	0	0	0	0	0
454	VARICOSE VEINS OF LOWER EXTREMITIES	4	2	2	4	2	2	0	0	0	0	0	0	0	0	0	0
456	VARICOSE VEINS OF OTHER SITES	9	7	2	9	7	2	0	0	0	0	0	0	0	0	0	0
457	NONINFECTIOUS DISORDERS OF LYMPHATIC CHANNELS	2	0	2	2	0	2	0	0	0	0	0	0	0	0	0	0
458	HYPOTENSION	36	15	21	35	15	20	1	0	1	0	1	0	0	0	0	0
459	OTHER DISORDERS OF CIRCULATORY SYSTEM	32	11	21	31	11	20	1	0	1	1	0	0	0	0	0	0
*460-519	VIII. DISEASES OF THE RESPIRATORY SYSTEM	5745	2591	3154	5583	2509	3074	128	62	66	34	20	34	20	34	20	34
460-466	ACUTE RESPIRATORY INFECTIONS	15	5	10	15	5	10	0	0	0	0	0	0	0	0	0	0
462	ACUTE PHARYNGITIS	1	0	1	1	0	1	0	0	0	0	0	0	0	0	0	0
464	ACUTE LARYNGITIS & TRACHEITIS	1	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
465	ACUTE UPPER RESP INF MULTIPLE OR UNSPECF SITES	4	2	2	4	2	2	0	0	0	0	0	0	0	0	0	0
466	ACUTE BRONCHITIS AND BRONCHIOLITIS	9	2	7	9	2	7	0	0	0	0	0	0	0	0	0	0
470-478	OTHER DISEASES UPPER RESPIRATORY TRACT	6	3	3	6	3	3	0	0	0	0	0	0	0	0	0	0
473	CHRONIC SINUSITIS	3	2	1	3	2	1	0	0	0	0	0	0	0	0	0	0
478	OTHER DISEASES OF UPPER RESPIRATORY TRACT	3	1	2	3	1	2	0	0	0	0	0	0	0	0	0	0
480-487	PNEUMONIA AND INFLUENZA	2635	1076	1559	2569	1040	1529	48	25	23	18	11	7	11	7	11	7
480	VIRAL PNEUMONIA	9	2	7	9	2	7	0	0	0	0	0	0	0	0	0	0
481	PNEUMOCOCCAL PNEUMONIA	54	29	25	54	29	25	0	0	0	0	0	0	0	0	0	0
482	OTHER BACTERIAL PNEUMONIA	72	34	38	71	34	37	1	0	1	0	0	0	0	0	0	0
483	PNEUMONIA DUE TO OTH SPECIFIED ORGANISM	1	0	1	1	0	1	0	0	0	0	0	0	0	0	0	0
485	BROCHOPNEUMONIA ORGANISM UNSPECIFIED	146	56	90	142	53	89	4	3	1	0	0	0	0	0	0	0
486	PNEUMONIA ORGANISM UNSPECIFIED	2341	953	1388	2280	920	1360	43	22	21	18	11	7	18	11	7	11
487	INFLUENZA	12	2	10	12	2	10	0	0	0	0	0	0	0	0	0	0
490-496	CHRONIC OBSTRUCTIVE PULMONARY DISEASE AND ALLIED CONDITIONS	2351	1119	1232	2287	1085	1202	56	30	26	8	4	4	8	4	4	4

TABLE C-15

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ICD, LIST NUMBER	CAUSE OF DEATH VIII. DISEASES OF THE RESPIRATORY SYSTEM (CONTINUED)	T O T A L S			W H I T E			B L A C K			O T H E R		
		TOT	MALE	FEM	TOT	MALE	FEM	TOT	MALE	FEM	TOT	MALE	FEM
490	BRONCHITIS NOT SPECIF AS ACUTE OR CHRONIC	16	2	14	16	2	14	0	0	0	0	0	0
491	CHRONIC BRONCHITIS	53	32	21	53	32	21	0	0	0	0	0	0
492	EMPHYSEMA	359	184	175	352	180	172	5	3	2	2	1	1
493	ASTHMA	110	37	73	95	32	63	13	5	8	2	0	2
494	BRONCHIECTASIS	13	4	9	12	4	8	0	0	0	1	0	1
496	CHRONIC AIRWAY OBSTRUCTION NEC	1800	860	940	1759	835	924	38	22	16	3	3	0
500-508	PNEUMONICOSES AND OTHER LUNG DISEASES DUE TO EXTERNAL AGENTS	310	171	139	298	166	132	7	3	4	5	2	3
501	ASBESTOSIS	18	17	1	18	17	1	0	0	0	0	0	0
502	PNEUMONIOSIS DUE TO OTH SILICA,SILICATES	3	3	0	3	3	0	0	0	0	0	0	0
503	PNEUMONIOSIS DUE TO OTH INORGANIC DUST	1	1	0	1	1	0	0	0	0	0	0	0
506	RESP CONDITIONS DUE TO CHEMICAL FUMES & VAPORS	1	1	0	1	1	0	0	0	0	0	0	0
507	PNEUMONITIS DUE TO SOLIDS & LIQUIDS	287	149	138	275	144	131	7	3	4	5	2	3
510-519	OTHER DISEASES OF RESPIRATORY SYSTEM	428	217	211	408	210	198	17	4	13	3	3	0
510	EMPHYEMA	11	9	2	11	9	2	0	0	0	0	0	0
511	PLEURISY	30	11	19	30	11	19	0	0	0	0	0	0
512	PNEUMOTHORAX	11	3	8	11	3	8	0	0	0	0	0	0
513	ABSCESS OF LUNG & MEDIASTINUM	4	2	2	3	2	1	1	0	1	0	0	0
514	PULMONARY CONGESTION AND HYPOSTASIS	19	7	12	19	7	12	0	0	0	0	0	0
515	POSTINFLAMMATORY PULMONARY FIBROSIS	149	75	74	142	72	70	5	1	4	2	2	0
516	OTH ALVEOLAR & PARIETOALVEOLAR PNEUMONOPATHY	12	9	3	11	9	2	1	0	1	0	0	0
518	OTHER DISEASES OF LUNG	169	93	76	160	90	70	8	2	6	1	1	0
519	OTHER DISEASES OF RESPIRATORY SYSTEM	23	8	15	21	7	14	2	1	1	0	0	0
*520-529	IX. DISEASES OF THE DIGESTIVE SYSTEM	2074	989	1085	1990	948	1042	68	33	35	16	8	8
520-529	DISEASES OF ORAL CAVITY, SALIVARY GLANDS AND JAWS	2	2	0	2	2	0	0	0	0	0	0	0
527	DISEASES OF THE SALIVARY GLANDS	1	1	0	1	1	0	0	0	0	0	0	0
528	DIS ORAL SOFT TISSUES EXCL LESIONS GINGIVA & TONGUE	1	1	0	1	1	0	0	0	0	0	0	0
530-537	DISEASES OF ESOPHAGUS, STOMACH, AND DUODENUM	175	71	104	170	68	102	3	2	1	2	1	1
530	DISEASES OF ESOPHAGUS	37	10	27	37	10	27	0	0	0	0	0	0
531	GASTRIC ULCER	37	10	27	36	10	26	0	0	0	1	0	1
532	DUODENAL ULCER	52	28	24	50	27	23	2	1	1	0	0	0
533	PEPTIC ULCER SITE UNSPECF	32	13	19	31	12	19	0	0	0	1	1	0
535	GASTRITIS & DUODENITIS	10	6	4	9	5	4	1	1	0	0	0	0
536	DISORDERS OF FUNCTION OF STOMACH	2	1	1	2	1	1	0	0	0	0	0	0
537	OTHER DISORDERS OF STOMACH & DUODENUM	5	3	2	5	3	2	0	0	0	0	0	0
540-543	APPENDICITIS	9	4	5	9	4	5	0	0	0	0	0	0
540	ACUTE APPENDICITIS	8	3	5	8	3	5	0	0	0	0	0	0
541	APPENDICITIS,UNQUALIFIED	1	1	0	1	1	0	0	0	0	0	0	0
550-553	HERNIA OF ABDOMINAL CAVITY	31	11	20	30	10	20	1	1	0	0	0	0
550	INGUINAL HERNIA	6	4	2	6	4	2	0	0	0	0	0	0
551	OTH HERNIA OF ABDOMINAL CAVITY WITH GANGRENE	2	1	1	2	1	1	0	0	0	0	0	0
552	OTH HERNIA ABD CAVITY W OBSTRUCT BUT W/O GANGRENE	11	2	9	10	1	9	1	1	0	0	0	0
553	OTH HERNIA ABD CAVITY W/O OBSTRUCT OR GANGRENE	12	4	8	12	4	8	0	0	0	0	0	0
555-558	NONINFECTIVE ENTERITIS AND COLITIS	260	88	172	254	87	167	5	1	4	1	0	1

TABLE C-15 (CONTINUED)

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ICD. LIST NUMBER	CAUSE OF DEATH IX. DISEASES OF THE DIGESTIVE SYSTEM (CONTINUED)	TOTALS				WHITE				BLACK				OTHER			
		TOT		FEM		TOT		FEM		TOT		FEM		TOT		FEM	
		MALE	FEM	MALE	FEM	MALE	FEM	MALE	FEM	MALE	FEM	MALE	FEM	MALE	FEM	MALE	FEM
555	REGIONAL ENTERITIS	17	7	10		17	7	10		0	0	0		0	0	0	
556	IDIOPATHIC PROCTOCOLITIS	14	7	7		14	7	7		0	0	0		0	0	0	
557	VASCULAR INSUFFICIENCY OF INTESTINE	190	64	126		185	63	122		4	1	3		1	0	1	
558	OTH NONINFECTIOUS GASTROENTERITIS & COLITIS	39	10	29		38	10	28		1	0	1		0	0	0	
560-569	OTHER DISEASES OF INTESTINE AND PERITONEUM	329	105	224		316	100	216		11	4	7		2	1	1	
560	INTESTINAL OBSTRUCTION W/O MENTION OF HERNIA	138	35	103		133	34	99		5	1	4		0	0	0	
562	DIVERTICULA OF INTESTINE	78	27	51		76	27	49		1	0	1		1	0	1	
564	FUNCTIONAL DIGESTIVE DISORDERS NEC	9	4	5		9	4	5		0	0	0		0	0	0	
566	ABSCESS OF ANAL AND RECTAL REGIONS	3	2	1		3	2	1		0	0	0		0	0	0	
567	PERITONITIS	51	22	29		47	19	28		3	2	1		1	1	0	
568	OTHER DISORDERS OF PERITONEUM	7	4	3		5	3	2		2	1	1		0	0	0	
569	OTHER DISORDERS OF INTESTINE	43	11	32		43	11	32		0	0	0		0	0	0	
570-579	OTHER DISEASES OF DIGESTIVE SYSTEM	1268	708	560		1209	677	532		48	25	23		11	6	5	
570	ACUTE & SUBACUTE NECROSIS OF LIVER	15	4	11		13	3	10		2	1	1		0	0	0	
571	CHRONIC LIVER DISEASE & CIRRHOSIS	594	368	226		573	360	213		17	6	11		4	2	2	
572	LIVER ABSCESS & SEQUELAE OF CHRONIC LIVER DISEASE	127	69	58		120	63	57		7	6	1		0	0	0	
573	OTHER DISORDERS OF LIVER	45	31	14		39	26	13		5	4	1		1	1	0	
574	CHOLELITHIASIS	33	7	26		32	7	25		0	0	0		0	0	0	
575	OTHER DISORDERS OF GALLBLADDER	30	16	14		29	16	13		1	0	1		0	0	0	
576	OTHER DISORDERS OF BILIARY TRACT	38	17	21		33	15	18		4	2	2		1	0	1	
577	DISEASES OF PANCREAS	75	40	35		70	38	32		4	2	2		1	0	1	
578	GASTROINTESTINAL HEMORRHAGE	307	155	152		296	148	148		8	4	4		3	3	0	
579	INTESTINAL MALABSORPTION	4	1	3		4	1	3		0	0	0		0	0	0	
*580-589	DISEASES OF THE GENITOURINARY SYSTEM	1262	545	717		1200	519	681		56	23	33		6	3	3	
580-589	NEPHRITIS AND NEPHROSIS	806	390	416		763	369	394		37	18	19		6	3	3	
580	ACUTE GLOMERULONEPHRITIS	5	3	2		4	2	2		0	0	0		1	1	0	
581	NEPHROTIC SYNDROME	3	2	1		3	2	1		0	0	0		0	0	0	
582	CHRONIC GLOMERULONEPHRITIS	22	12	10		20	12	8		2	0	2		0	0	0	
583	NEPHRITIS & NEPHROPATHY NOT SPECIF AS ACUTE/CHRONIC	8	3	5		7	2	5		1	1	0		0	0	0	
584	ACUTE RENAL FAILURE	119	51	68		115	50	65		4	1	3		0	0	0	
585	CHRONIC RENAL FAILURE	187	97	90		178	94	84		9	3	6		0	0	0	
586	RENAL FAILURE, UNSPECIFIED	459	221	238		433	206	227		21	13	8		5	2	3	
587	RENAL SCLEROSIS, UNSPECIFIED	2	1	1		2	1	1		0	0	0		0	0	0	
589	SHALL KIDNEY OF UNKNOWN CAUSE	1	0	1		1	0	1		0	0	0		0	0	0	
590-599	OTHER DISEASES OF URINARY SYSTEM	444	146	298		425	141	284		19	5	14		0	0	0	
590	INFECTIONS OF KIDNEY	17	2	15		17	2	15		0	0	0		0	0	0	
591	HYDRONEPHROSIS	1	1	0		1	1	0		0	0	0		0	0	0	
592	CALCULUS OF KIDNEY & URETER	3	1	2		3	1	2		0	0	0		0	0	0	
593	OTHER DISORDERS OF KIDNEY & URETER	92	45	47		82	41	41		10	4	6		0	0	0	
595	CYSTITIS	1	0	1		1	0	1		0	0	0		0	0	0	
596	OTHER DISORDERS OF BLADDER	3	3	0		3	3	0		0	0	0		0	0	0	
599	OTHER DISORDERS OF URETHRA & URINARY TRACT	327	94	233		318	93	225		9	1	8		0	0	0	
600-608	DISEASES OF MALE GENITAL ORGANS	9	9	0		9	9	0		0	0	0		0	0	0	
600	HYPERPLASIA OF PROSTATE	5	5	0		5	5	0		0	0	0		0	0	0	
602	OTHER DISORDERS OF PROSTATE	2	2	0		2	2	0		0	0	0		0	0	0	

TABLE C-15 (CONTINUED)

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ICD LIST NUMBER	CAUSE OF DEATH	*****						*****						*****											
		T O T A L S						W H I T E						B L A C K						O T H E R					
		TOT	MALE	FEM	TOT	MALE	FEM	TOT	MALE	FEM	TOT	MALE	FEM	TOT	MALE	FEM	TOT	MALE	FEM						
733	XIII. DISEASES OF THE MUSCULOSKELETAL SYSTEM AND CONNECTIVE TISSUE (CONTINUED) OTHER DISORDERS OF BONE & CARTILAGE CURVATURE OF SPINE	8	1	7	8	1	7	0	0	0	0	0	0	0	0	0	0	0	0						
737		14	4	10	14	4	10	0	0	0	0	0	0	0	0	0	0	0							
*740 759		214	104	110	192	93	99	16	9	7	47	24	23	6	2	4	6	2	4						
740	XIV. CONGENITAL ANOMALIES ANENCEPHALUS & SIMILAR ANOMALIES	3	0	3	3	0	3	0	0	0	0	0	0	0	0	0	0	0	0						
741	SPINA BIFIDA	1	0	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0						
742	OTHER CONGENITAL ANOMALIES OF NERVOUS SYSTEM	32	19	13	31	18	13	1	1	0	0	0	0	0	0	0	0	0	0						
744	CONGENITAL ANOMALIES OF EAR, FACE AND NECK	1	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0						
745	BULBUS CORDIS ANOMS & ANOMS CARDIAC SEPTAL CLOSURE	27	8	19	26	8	18	1	0	1	0	1	0	0	0	0	0	0	0						
746	OTHER CONGENITAL ANOMALIES OF HEART	48	27	21	45	25	20	2	2	0	2	2	0	1	0	1	1	0	1						
747	OTHER CONGENITAL ANOMS OF CIRCULATORY SYSTEM	22	10	12	18	9	9	2	0	2	2	0	2	2	0	2	2	0	2						
748	CONGENITAL ANOMALIES OF RESPIRATORY SYSTEM	19	8	11	15	8	7	2	0	2	0	0	0	0	0	0	0	0	0						
750	OTHER CONGENITAL ANOMS UPPER ALIMENTARY TRACT	1	0	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0						
751	OTHER CONGENITAL ANOMS OF DIGESTIVE SYSTEM	11	0	1	11	7	4	0	0	0	0	0	0	0	0	0	0	0	0						
753	CONGENITAL ANOMS OF URINARY SYSTEM	14	8	6	11	6	5	2	1	1	2	1	1	1	1	0	1	1	0						
756	OTHER CONGENITAL MUSCULOSKELETAL ANOMALIES	19	8	11	17	6	11	2	2	0	2	2	0	0	0	0	0	0	0						
758	CHROMOSOMAL ANOMALIES	11	5	6	11	5	6	4	3	1	4	3	1	0	0	0	0	0	0						
759	OTHER & UNSPECIFIED CONGENITAL ANOMALIES	15	8	7	11	5	6	4	3	1	4	3	1	0	0	0	0	0	0						
*760 779	XV. CERTAIN CONDITIONS ORIGINATING IN PERINATAL PERIOD	250	134	116	197	108	89	47	24	23	47	24	23	6	2	4	6	2	4						
760	NEWBORN AFFECTED BY MAT COMDS REL/UNREL TO PREG	1	1	0	0	0	0	1	1	0	1	1	0	0	0	0	0	0	0						
761	NEWBORN AFFECTED BY MAT COMPLICATIONS OF PREG	28	18	10	17	11	6	9	5	4	9	5	4	2	2	0	2	2	0						
762	NEWBORN AFFECTED COMPLIC PLACENTA, CORD, MEMBRANE	16	7	9	14	7	7	2	0	2	2	0	2	0	0	0	0	0	0						
764	SLOW FETAL GROWTH & FETAL MALNUTRITION	1	0	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0						
765	DISORDERS REL TO SHORT GESTATION & UNSPECF LOW BIRTHWT	80	40	40	64	33	31	15	7	8	15	7	8	1	0	1	1	0	1						
767	BIRTH TRAUMA	5	2	3	4	2	2	1	0	1	1	0	1	0	0	0	0	0	0						
768	INTRAUTERINE HYPOXIA & BIRTH ASPHYXIA	4	1	3	3	0	3	1	1	1	1	1	0	0	0	0	0	0	0						
769	RESPIRATORY DISTRESS SYNDROME	36	20	16	34	20	14	2	0	2	2	0	2	0	0	0	0	0	0						
770	OTHER RESPIRATORY CONDITIONS OF NEWBORN	35	16	19	30	13	17	4	3	1	4	3	1	1	0	1	1	0	1						
771	INFECTIONS SPECIFIC TO THE PERINATAL PERIOD	9	4	5	5	3	2	4	1	3	4	1	3	0	0	0	0	0	0						
772	NEONATAL HEMORRHAGE	3	2	1	3	2	1	0	0	0	0	0	0	0	0	0	0	0	0						
776	HEMATOLOGICAL DISORDERS OF NEWBORN	2	1	1	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0						
777	PERINATAL DISORDERS OF DIGESTIVE SYSTEM	7	6	1	5	4	1	2	2	0	2	2	0	0	0	0	0	0	0						
778	COND INVOLV INTEGUMENT/TEMP REGULATION OF NEWBORN	4	2	2	1	1	0	2	1	1	2	1	1	1	1	1	1	0	1						
779	OTH & ILL-DEFINED COND ORIGINATING IN PERINATAL PERIOD	19	14	5	14	11	3	4	3	1	4	3	1	1	1	1	1	0	1						

TABLE C-15

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ICD, LIST NUMBER	CAUSE OF DEATH XVI. SYMPTOMS SIGNS, AND ILL-DEFINED CONDITIONS	TOTALS			WHITE			BLACK			OTHER		
		TOT 400	MALE 201	FEM 199	TOT 370	MALE 181	FEM 189	TOT 25	MALE 15	FEM 10	TOT 4	MALE 4	FEM 0
*780-799	GENERAL SYMPTOMS	88	42	46	82	37	45	6	5	1	0	0	0
780	SYMPTOMS INVOLVING NERVOUS & MUSCULOSKELETAL SYS	24	15	9	21	12	9	3	3	0	0	0	0
781	SYMPTOMS INVOLVING SKIN & OTH INTEGUMENTARY TISSUE	1	1	0	1	1	0	0	0	0	0	0	0
782	SYMPTOMS RE NUTRITION, METABOLISM & DEVELOPMENT	2	0	2	2	0	2	0	0	0	0	0	0
783	SYMPTOMS INVOLVING CARDIOVASCULAR SYSTEM	4	2	2	4	2	2	0	0	0	0	0	0
785	SYMPTOMS INVOLVING RESPIRATORY & OTHER CHEST SYMPTOMS	47	19	28	45	17	28	2	2	0	0	0	0
786	OTHER SYMPTOMS INVOLVING ABDOMEN & PELVIS	7	3	4	6	3	3	1	0	1	0	0	0
789	NONSPECIFIC ABNORMAL FINDINGS	3	2	1	3	2	1	0	0	0	0	0	0
790-796	NONSPECIFIC FINDINGS ON EXAMINATION OF URINE	1	1	0	1	1	0	0	0	0	0	0	0
791	ILL-DEFINED AND UNKNOWN CAUSES OF	1	1	0	1	1	0	0	0	0	0	0	0
797-799	MORBIDITY AND MORTALITY	311	158	153	287	143	144	19	10	9	4	4	0
797	SENILITY M/O MENTION OF PSYCHOSIS	6	0	6	6	0	6	0	0	0	0	0	0
798	SUDDEN DEATH, CAUSE UNKNOWN	65	44	21	55	37	18	8	5	3	2	2	0
799	OTH ILL-DEFINED & UNK CAUSES OF MORBIDITY/MORTALITY	240	114	126	226	106	120	11	5	6	2	2	0
*800-999	EXTERNAL CAUSES OF INJURY AND POISONING	2436	1689	747	2203	1508	695	193	156	37	39	24	15
800-807	RAILWAY ACCIDENTS	13	12	1	10	10	0	3	2	1	0	0	0
805	HIT BY ROLLING STOCK	13	12	1	10	10	0	3	2	1	0	0	0
810-819	MOTOR VEHICLE TRAFFIC ACCIDENTS	470	339	131	447	327	120	14	7	7	9	5	4
812	OTHER M/V TRAFFIC ACCIDENT INVOLVING COLLISION W/ M/V	154	101	53	148	97	51	2	1	1	4	3	1
813	M/V TRAFFIC ACCIDENT INVOLV COLLISION W/ OTH VEHICLE	3	2	1	3	2	1	0	0	0	0	0	0
814	M/V TRAFFIC ACCIDENT INVOLVING COLLISION W/ PEDESTRIAN	89	53	36	82	50	32	6	3	3	1	0	1
815	OTHER M/V TRAFFIC ACCIDENT INVOLV COLLISION ON HIGHWAY	121	106	15	115	102	13	4	3	1	2	1	1
816	M/V TRAFF ACC DUE TO LOSS CONTROL M/O COLLISION ON HWY	26	19	7	24	19	5	1	0	1	1	0	1
818	OTHER NON-COLLISION M/V TRAFFIC ACCIDENT	7	6	1	7	6	1	0	0	0	0	0	0
819	M/V TRAFFIC ACCIDENT UNSPECIFIED NATURE	70	52	18	68	51	17	1	0	1	1	1	0
820-825	MOTOR VEHICLE NONTRAFFIC ACCIDENTS	14	12	2	14	12	2	0	0	0	0	0	0
820	NON-TRAFFIC ACCIDENT INVOLVING SNOW VEHICLE	3	3	0	3	3	0	0	0	0	0	0	0
821	NON-TRAFFIC ACCIDENT INVOLVING OTH OFF-ROAD M/V	2	2	0	2	2	0	0	0	0	0	0	0
822	OTH M/V NON-TRAFFIC ACC INVOLV COLLISION MOVING OBJ	8	6	2	8	6	2	0	0	0	0	0	0
825	OTH M/V NON-TRAFFIC ACCIDENT OTH & UNSPECIF	1	1	0	1	1	0	0	0	0	0	0	0
826-829	OTHER ROAD VEHICLE ACCIDENTS	2	2	0	0	0	0	1	1	0	1	1	0
826	PEDAL CYCLE ACCIDENT	2	2	0	0	0	0	1	1	0	1	1	0
830-838	WATER TRANSPORT ACCIDENTS	10	9	1	10	9	1	0	0	0	0	0	0
830	ACCIDENT TO WATERCRAFT CAUSING SUBMERSION	4	4	0	4	4	0	0	0	0	0	0	0
832	OTH ACCIDENTAL SUBMERS/DROWN IN WATER TRANSP ACCIDENT	2	2	0	2	2	0	0	0	0	0	0	0
838	OTH & UNSPECIF WATER TRANSPORT ACCIDENT	4	3	1	4	3	1	0	0	0	0	0	0
840-845	AIR AND SPACE TRANSPORT ACCIDENTS	11	8	3	10	8	2	1	0	1	0	0	0
840	ACCIDENT TO POWERED AIRCRAFT AT TAKEOFF OR LANDING	1	1	0	1	1	0	0	0	0	0	0	0
841	ACCIDENT TO POWERED AIRCRAFT, OTH & UNSPECIF	10	7	3	9	7	2	1	0	1	0	0	0
846-848	VEHICLE ACCIDENTS NOT ELSEWHERE CLASSIFIED	1	1	0	1	1	0	0	0	0	0	0	0
848	ACCIDENTS INVOLV OTHER VEHICLES NEC	1	1	0	1	1	0	0	0	0	0	0	0
850-858	ACCIDENTAL POISONING BY DRUGS AND MEDICAMENTS	24	11	13	23	11	12	1	0	1	0	0	0
850	ACC POISON BY ANALGESICS, ANTIPYRETICS, ANTIRHEUMATICS	5	4	1	5	4	1	0	0	0	0	0	0

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ICD-10 LIST NUMBER	CAUSE OF DEATH XVII. EXTERNAL CAUSES OF INJURY AND POISONING	T O T A L S		W H I T E		B L A C K		O T H E R		
		TOT	MALE	FEM	TOT	MALE	FEM	TOT	MALE	FEM
854	(CONTINUED) ACCIDENTAL POISONING BY OTH PSYCHOTROPIC AGENTS	1	0	1	0	0	0	0	0	0
855	ACC POISON BY OTH DRUGS ACTING ON CNS & AUTONOH NS	3	2	1	3	2	1	0	0	0
858	ACCIDENTAL POISONING BY OTHER DRUGS	15	5	10	14	5	9	1	0	1
860-869	ACCIDENTAL POISONING BY OTHER SUBSTANCES	9	8	1	9	8	1	0	0	0
	GASES AND VAPOURS									
860	ACCIDENTAL POISONING BY ALCOHOL NEC	1	1	0	1	1	0	0	0	0
866	ACC POISONING BY OTH & UNSPECF SOLID/LIQUID SUBS	1	1	0	1	1	0	0	0	0
868	ACC POISONING BY OTH UTILITY GAS & OTH CARBON MONOX	7	6	1	7	6	1	0	0	0
878-879	ACC POISONING BY OTH UTILITY GAS & OTH CARBON MONOX	46	20	26	44	19	25	1	1	1
	SURGICAL & MEDICAL PROCEDURES AS CAUSE									
	OF LATER COMPLICATION									
878	SURG OPER CAUSE ABNORM REACT/COMPL W/O MISADVENTURE	37	16	21	36	15	21	1	1	0
879	OTH PROCED W/O MISADVENTURE CAUSING ABNORM REACTION	9	4	5	8	4	4	0	0	1
880-888	ACCIDENTAL FALLS	346	162	184	334	155	179	10	6	4
880	FALL ON OR FROM STAIRS OR STEPS	47	27	20	44	26	18	2	1	1
881	FALL ON OR FROM LADDERS OR SCAFFOLDING	9	8	1	9	8	1	0	0	0
882	FALL FROM OR OUT OF BUILDING OR OTHER STRUCTURE	12	10	2	10	8	2	2	0	0
883	FALL INTO HOLE OR OTHER OPENING IN SURFACE	3	2	1	3	2	1	0	0	0
884	OTHER FALL FROM ONE LEVEL TO ANOTHER	14	10	4	13	9	4	1	1	0
885	FALL ON SAME LEVEL FROM SLIPPING,TRIPPING,STUMBLING	19	10	9	18	9	9	1	1	0
887	FRACTURE, CAUSE UNSPECIFIED	154	52	102	150	50	100	3	2	1
888	OTHER & UNSPECIFIED FALL	88	43	45	87	43	44	1	0	1
890-899	ACCIDENTS CAUSED BY FIRES AND FLAMES	71	40	31	64	35	29	5	3	2
890	CONFLAGRATION IN PRIVATE DWELLING	62	36	26	56	32	24	4	2	2
891	CONFLAGRATION IN OTH & UNSPECF BUILDING/STRUCTURE	1	0	1	1	0	1	0	0	0
893	ACCIDENT CAUSED BY IGNITION OF CLOTHING	4	2	2	4	2	2	0	0	0
898	ACC CAUSED BY OTHER SPECIFIED FIRE & FLAMES	1	1	0	1	1	0	0	0	0
899	ACCIDENT CAUSED BY UNSPECIFIED FIRE	3	1	2	2	0	2	1	1	0
900-909	ACCIDENTS CAUSED BY NATURAL AND ENVIRONMENTAL FACTORS	11	8	3	10	7	3	1	1	0
900	EXCESSIVE HEAT	1	0	1	1	0	1	0	0	0
901	EXCESSIVE COLD	9	7	2	8	6	2	1	1	0
905	VENOIOUS ANIMALS & PLANTS AS CAUSE OF TOXIC REACTION	1	1	0	1	1	0	0	0	0
910-915	ACCIDENTS CAUSED BY SUBMERSION SUFFOCATION & FOREIGN BODIES	153	103	50	140	96	44	8	4	4
910	ACCIDENTAL DROWNING & SUBMERSION	47	38	9	39	33	6	5	2	3
911	INHALATION, INGESTION OF FOOD CAUSING OBST/SUFFOC	21	14	7	21	14	7	0	0	0
912	INHALATION, INGESTION OF OTH OBJECT CAUSE OBST/SUFFOC	66	33	33	62	32	30	2	1	1
913	ACCIDENTAL MECHANICAL SUFFOCATION	19	18	1	18	17	1	1	1	0
916-928	OTHER ACCIDENTS	97	55	42	92	50	42	3	3	0
916	STRUCK ACCIDENTALLY BY FALLING OBJECT	6	6	0	6	6	0	0	0	0
917	STRUCK AGAINST OR ACCIDENTALLY BY OBJECTS OR PERSONS	1	0	1	1	1	0	0	0	0
918	CAUGHT ACCIDENTALLY IN OR BETWEEN OBJECTS	1	1	0	1	1	0	0	0	0
919	ACCIDENTS CAUSED BY MACHINERY	4	4	0	2	2	0	0	0	0
921	ACCIDENT CAUSED BY EXPLOSION OF PRESSURE VESSEL	1	1	0	1	1	0	0	0	0
922	ACCIDENT CAUSED BY FIREARM MISSILE	5	5	0	4	4	0	1	1	0
923	ACCIDENT CAUSED BY EXPLOSIVE MATERIAL	1	1	0	1	1	0	0	0	0
925	ACCIDENT CAUSED BY ELECTRIC CURRENT	6	6	0	6	6	0	0	0	0

TABLE C-15

1994

ICD. LIST NUMBER	CAUSE OF DEATH XVII. EXTERNAL CAUSES OF INJURY AND POISONING	T O T A L S			W H I T E			B L A C K			O T H E R		
		TOT	MALE	FEM	TOT	MALE	FEM	TOT	MALE	FEM	TOT	MALE	FEM
928	OTH & UNSPEC ENVIRONMENTAL/ACCIDENTAL CAUSES	72	31	41	70	29	41	2	2	0	0	0	0
929-929	LATE EFFECTS OF ACCIDENTAL INJURY	31	23	8	29	21	8	2	2	0	0	0	0
929	LATE EFFECTS OF ACCIDENTAL INJURY	31	23	8	29	21	8	2	2	0	0	0	0
930-949	DRUGS MEDICAMENTS AND BIOLOGICAL SUB- STANCES IN THERAPY	2	0	2	2	0	2	0	0	0	0	0	0
947	ADVERSE EFFECTS OTH & UNSPECF DRUGS & MEDICINAL SUBS	2	0	2	2	0	2	0	0	0	0	0	0
950-959	SUICIDE AND SELF-INFLICTED INJURY	508	395	113	484	377	107	17	15	2	0	0	0
950	SUICIDE & SELF-INFLC POISONING SOLID/LIQUID SUBS	93	38	55	86	34	52	3	2	1	4	3	4
952	SUICIDE & SELF-INFLC POISONING OTHER GASES/VAPORS	48	37	11	48	37	11	0	0	0	0	0	0
953	SUICIDE & SELF-INFLC INJURY HANGING,STRANGUL,SUFFOC	145	125	20	141	121	20	4	4	0	0	0	0
954	SUICIDE & SELF-INFLC INJURY BY DROWNING	14	11	3	12	10	2	1	1	0	1	0	1
955	SUICIDE & SELF-INFLC INJURY BY FIREARMS/EXPLOSIVES	155	143	12	150	138	12	4	4	0	1	1	0
956	SUICIDE & SELF-INFLC INJURY BY CUTTING/PIERCING INST	13	10	3	13	10	3	0	0	0	0	0	0
957	SUICIDE & SELF-INFLC INJURY BY JUMPING-HIGH PLACE	26	20	6	24	19	5	1	1	0	1	0	0
958	SUICIDE & SELF-INFLC INJURY BY OTH & UNSPECIF MEANS	14	11	3	10	8	2	4	3	1	0	0	1
960-969	HOMICIDE AND INJURY PURPOSELY INFLICTED BY OTHER PERSONS	232	181	51	138	97	41	89	81	8	5	3	2
960	FIGHT, BRAWL OR RAPE	2	0	2	2	0	2	0	0	0	0	0	0
962	ASSAULT BY POISONING	1	0	1	0	0	0	1	0	1	0	0	0
963	ASSAULT BY HANGING AND STRANGULATION	8	2	6	8	2	6	0	0	0	0	0	0
965	ASSAULT BY FIREARMS AND EXPLOSIVES	143	117	26	73	54	19	66	61	5	4	2	2
966	ASSAULT BY CUTTING AND PIERCING INSTRUMENT	32	27	5	19	15	4	13	12	1	0	0	0
967	CHILD BATTERING & OTHER MALTREATMENT	1	0	1	1	0	1	0	0	0	0	0	0
968	ASSAULT BY OTHER & UNSPECIFIED MEANS	41	31	10	32	23	9	8	7	1	1	1	0
969	LATE EFFECTS OF INJURY PURPOSELY INFLIC BY OTH PERSON	4	4	0	3	3	0	1	1	0	0	0	0
970-978	LEGAL INTERVENTION	3	3	0	1	1	0	2	2	0	0	0	0
970	INJURY DUE TO LEGAL INTERVENTION BY FIREARMS	3	3	0	1	1	0	2	2	0	0	0	0
980-989	INJURY UNDETERMINED WHETHER ACCIDENTALLY OR PURPOSELY INFLICTED	382	297	85	341	264	77	35	28	7	6	5	1
980	POISONING BY SOLID/LIQ SUBS, UNDETERMINED INTENT	346	269	77	313	241	72	29	24	5	4	4	0
981	POISONING BY GASES-DOMEST USE, UNDETERMINED INTENT	1	0	1	1	0	1	0	0	0	0	0	0
982	POISONING BY OTHER GASES, UNDETERMINED INTENT	2	2	0	2	2	0	0	0	0	0	0	0
983	HANGING, STRANGUL, SUFFOCATION, UNDETERMINED INTENT	3	3	0	3	3	0	0	0	0	0	0	0
984	DROWNING, UNDETERMINED INTENT	11	8	3	7	5	2	2	2	0	2	1	1
985	INJURY BY FIREARMS/EXPLOSIVES, UNDETERMINED INTENT	3	3	0	3	3	0	0	0	0	0	0	0
987	FALLING FROM HIGH PLACE, UNDETERMINED INTENT	4	3	1	3	2	1	1	1	0	0	0	0
988	INJURY BY OTH & UNSPECF MEANS, UNDETERMINED INTENT	12	9	3	9	8	1	3	1	2	0	0	0
***	RESIDENT GRAND TOTALS	54914	26181	28733	52465	24855	27610	2079	1125	954	368	199	169
TOTALS INCLUDE 2 OF UNKNOWN RACE: 2 MALES AND 0 FEMALES.													

INFANT & NEONATAL DEATHS

SECTION D

INFANT AND NEONATAL DEATHS

The total number of resident infant deaths (deaths of children less than 1 year of age) decreased by 4.6% in Massachusetts from 523 in 1993 to 499 in 1994. The rate of infant deaths also decreased--from 6.2 infant deaths per 1,000 live births in 1993 to 6.0 infant deaths per 1,000 live births in 1994. As with live births and other deaths, all Massachusetts resident infant deaths are included regardless of the state in which they occurred. Neonatal deaths (deaths of infants under 28 days of age) decreased from 375 in 1993 to 349 in 1994, a decrease of 6.9%. The rate of neonatal deaths also decreased from 4.4 per 1,000 live births in 1993 to 4.2 per 1,000 live births in 1994.

INFANT DEATHS BY RACE

Beginning with the publication of 1989 data, several changes occurred in the method of calculating infant mortality rates (IMRs) by race and ethnicity. **These changes affect only the calculation of race/ethnic infant mortality rates; all other data presented in this publication are comparable to information from previous years.** These changes are the result of new federal recommendations for analyzing birth information, including infant mortality data, and the implementation of the new Massachusetts Standard Certificate of Death in 1989.

Using mother's race rather than infant's race:

The National Center for Health Statistics (NCHS) has recommended classifying births on the birth certificate according to the self-reported race of the mother. In the past, the race of the infant was assigned by combining information on the races of the mother and the father. However, based on changes in statistical conventions by the National Center for Health Statistics, Massachusetts now follows the new NCHS guidelines and calculates infant mortality using mother's race.

It is important to remember that the total number of infant deaths does not change--nor do the race/ethnic categories into which they are placed. (The death certificate only contains race/ethnic identifiers for the decedent, in this case the infant. It contains no race or ethnicity information about the mother.) Only the race/ethnic category used to classify births changes.

The impact of this change is to lower the white infant mortality rate and raise the black infant mortality rate. For example, using infant's race in 1994, the white IMR was 5.6 per 1,000 births; the black IMR was 12.0. Using the same death information, but classifying births according to mother's race, the white IMR decreases to 5.3 and the black IMR increases to 12.6. Thus, the gap between the white IMR and the black IMR increases from 114% to 138%, based solely on the change in method of computation.

The rates in the last column of the following table for 1994 should be used to compare white non-Hispanic, black non-Hispanic, Hispanic, and Asian infant mortality rates. Use the rates in the second column ("Classified by Race") to compare time trends in infant mortality rates prior to 1989.

Race Group	Classified by Race	Mother's Race/Ethnicity	Infant Mortality Rate
White	5.6	White non-Hispanic	5.3
Black	12.0	Black non-Hispanic	12.6
Other	2.9	Hispanic	7.6
		Asian	2.4
		Other	5.3
TOTAL	6.0	TOTAL	6.0

A Summary of the Impact of Classification Changes on 1994 IMRs

CHANGE	ADVANTAGES	IMPACT
Using mother's race rather than infant's race to categorize births	• Provides consistency with federal guidelines • Discontinues arbitrary combination of parents' race responses to classify infant race	• Reduces comparability with previously published data for past years • Lowers the IMR for whites and raises the IMR for blacks, thus increasing the gap between white and black rates • Reduces comparability with other states and federal data that have not implemented this change

INFANT DEATHS BY AGE

Of all infant deaths, 58.5% (292 infants) died within the first week of life in 1994, compared to 58.3% (305 infants) in 1993. Of these, 45.7% (228 infants) died within the first 24 hours of life in 1994, compared to 44.6% (233 infants) in 1993.

INFANT DEATHS BY CAUSE

The leading cause of infant deaths was certain conditions originating in the perinatal period (medical conditions arising from approximately 28 weeks gestation to 28 days of age). These deaths accounted for 54.9% of all infant deaths in 1994, an increase from the 1993 percentage of 52.4%. The second leading cause of infant deaths was congenital anomalies, which accounted for 24.0% of infant deaths. The third leading cause of infant deaths was sudden infant death syndrome (SIDS), which accounted for 58 deaths in 1994, compared to 62 SIDS deaths in 1993. The percentage of infant deaths from SIDS also decreased from 11.9% in 1993 to 11.6% in 1994.

DEFINITIONS IMPORTANT FOR THIS SECTION INCLUDE:

INFANT DEATH

Death of a child whose age is less than one year (365 days).

NEONATAL DEATH

Death of a child whose age is less than 28 days.

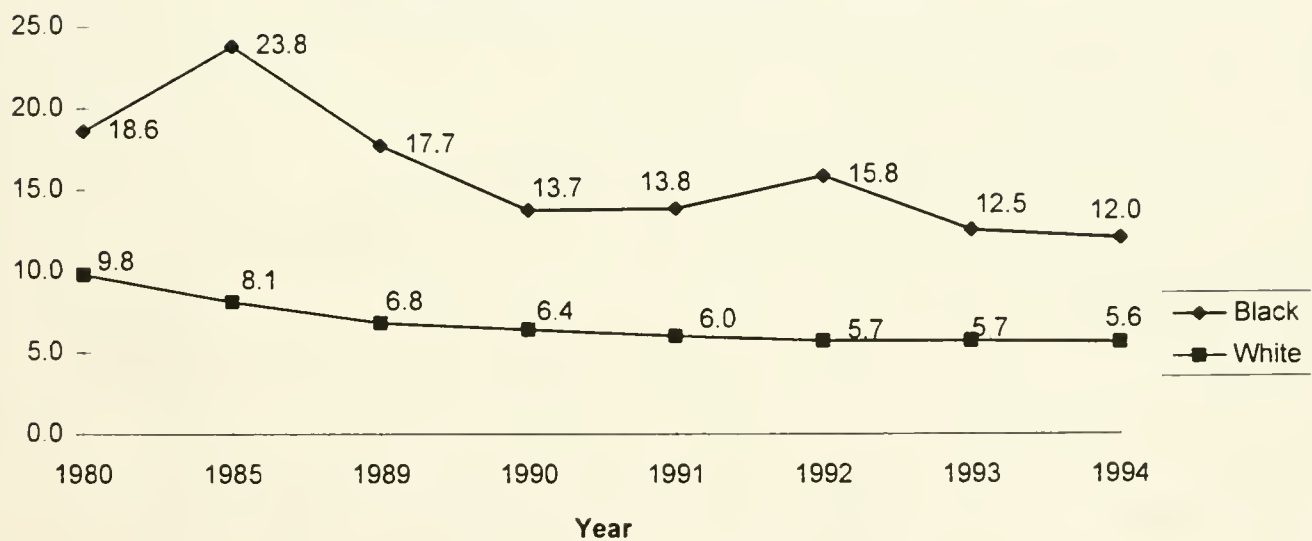
POST NEONATAL DEATH

Death of a child whose age is at least 28 days, but less than one year.

RATES IMPORTANT FOR THIS SECTION INCLUDE:

INFANT MORTALITY RATE (IMR)	$\frac{\text{Number of Resident Deaths at Less than 1 Year of Age} \times 1,000}{\text{Total Resident Live Births}}$
NEONATAL MORTALITY RATE (NMR)	$\frac{\text{Number of Resident Deaths at Less than 28 Days of Age} \times 1,000}{\text{Total Resident Live Births}}$

**Figure D-1. Infant Mortality Rates^{1,2} by Mother's Race
Massachusetts: 1980, 1985, 1989-1994**

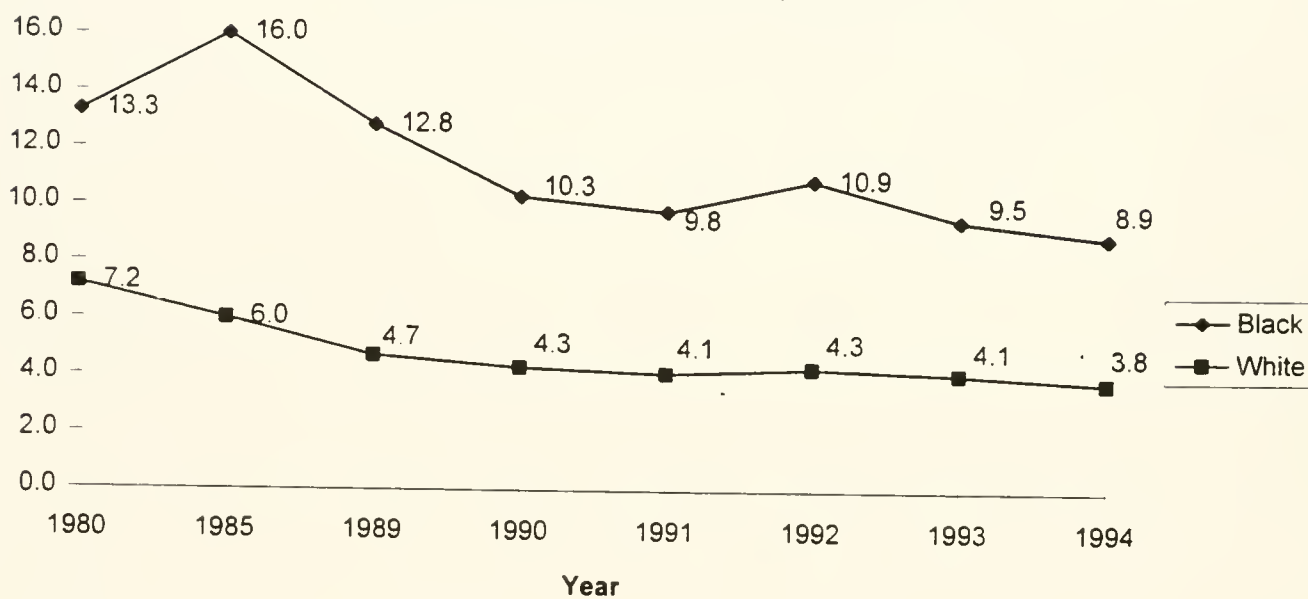


¹ Infant mortality rates are per 1,000 live births.

² Infant: A child less than one year (365 days) old.

For rate computations, infants of unknown race are allocated into the race categories according to the distribution of births of known race.

**Figure D-2. Neonatal Mortality^{1,2} Rates by Mother's Race
Massachusetts: 1980, 1985, 1989-1994**



¹ Neonatal mortality rates are per 1,000 live births.

² Neonatal: a child less than 28 days old

For rate computations, infants of unknown race are allocated into the race categories according to the distribution of births of known race.

Table D-1. Trends in Infant, Neonatal and Post Neonatal Mortality by Race and Hispanic Ethnicity, Massachusetts: 1989-1994

Year	INFANT ¹										
	Total ²		White non-Hispanic		Black non-Hispanic		Hispanic		Asian		Other ³
	#	Rate ⁴	#	Rate	#	Rate	#	Rate	#	Rate	
1989	697	7.6	482	6.6	126	18.8	67	8.6	15	4.6	7 8.1
1990	649	7.0	442	6.1	98	13.7	77	9.1	24	7.0	8 9.5
1991	577	6.5	381	5.5 ⁵	101	15.0	80	9.4	14	4.2	1 - ⁶
1992	569	6.5	371	5.5	110	16.4	67	7.9	16	4.9	5 5.1
1993	523	6.2	346	5.3	84	13.1	77	9.3	13	3.9	3 -
1994	499	6.0	343	5.3	79	12.6	64	7.6	8	2.4	5 5.3

NEONATAL ⁷												
Year	Total ²		White non-Hispanic		Black non-Hispanic		Hispanic		Asian		Other ³	
	#	Rate ⁴	#	Rate	#	Rate	#	Rate	#	Rate	#	Rate
1989	479	5.2	327	4.5	93	13.9	49	6.3	6	1.8	4	-
1990	446	4.8	298	4.1	75	10.5	49	5.8	19	5.5	5	5.5
1991	401	4.5	266	3.9	72	10.7	53	6.2	10	3.0	0	0.0
1992	415	4.8	274	4.0	76	11.4	51	6.0	10	3.0	4	-
1993	375	4.4	245	3.7	64	10.0	55	6.7	9	2.7	2	-
1994	349	4.2	240	3.7	58	9.3	40	4.7	7	2.1	4	-

Table D-1. (Continued) Trends in Infant, Neonatal and Post Neonatal Mortality by Race and Hispanic Ethnicity, Massachusetts: 1989-1994

Year	POST NEONATAL ⁸											
	Total ²		White non-Hispanic		Black non-Hispanic		Hispanic		Asian		Other ³	
	#	Rate ⁴	#	Rate	#	Rate	#	Rate	#	Rate	#	Rate
1989	218	2.4	155	2.1	33	4.9	18	2.3	9	2.8	3	-
1990	203	2.2	144	2.0	23	3.2	28	3.3	5	1.5	3	-
1991	176	2.0	115	1.7	29	4.3	27	3.2	4	-	1	-
1992	154	1.8	97	1.4	34	5.1	16	1.9	6	1.8	1	-
1993	148	1.7	101	1.5	20	3.1	22	2.7	4	-	1	-
1994	150	1.8	103	1.6	21	3.3	24	2.8	1	-	1	-

1 Infant: A child less than one year (365) days old. 2 Deaths of infants of unknown race are included in the total calculation. For rate computations, births of infants of unknown race are allocated into the race categories according to the distribution of births of known race. 3 Other: American Indian, Hawaiian, and Other. 4 Infant, neonatal, and post neonatal mortality rates are per 1,000 live births. 5 Within race/ethnic categories, the sum of the neonatal and post neonatal infant mortality rates does not always equal the overall infant mortality rate due to rounding. 6 Calculations based on fewer than five events are excluded. 7 Neonatal: A child less than 28 days old. 8 Post Neonatal: A child whose age is at least 28 days, but less than one year.

Table D-2. Trends in Infant, Neonatal and Post Neonatal Deaths¹, Massachusetts: 1980-1994

Infant Deaths ²								
Year	<u>Total³</u>		<u>White</u>		<u>Black</u>		<u>Asian/Other⁴</u>	
	#	Rate ⁵	#	Rate	#	Rate	#	Rate
1980	748	10.3	655	9.8	87	18.6	5	4.6
1981	710	9.6	616	9.1	85	18.2	8	6.1
1982	764	10.1	656	9.4	102	21.3	5	3.3
1983	682	9.0	579	8.3	89	19.0	12	7.4
1984	699	8.9	601	8.4	82	16.4	13	7.5
1985	745	9.1	608	8.1	126	23.8	11	6.1
1986	695	8.4	560	7.5	123	22.0	11	4.6
1987	608	7.2	486	6.4	110	17.5	12	4.5
1988	693	7.9	546	7.0	133	19.5	13	3.8
1989	697	7.6	549	6.8	131	17.7	17	4.8
1990	649	7.0	519	6.4	106	13.7	24	6.5
1991	576	6.5	460	6.0	102	13.8	14	3.9
1992	569	6.5	438	5.7	114	15.8	17	4.7
1993	523	6.2	423	5.7	87	12.5	13	3.5
1994	499	6.0	407	5.6	81	12.0	11	2.9
Neonatal Deaths ⁶								
Year	<u>Total</u>		<u>White</u>		<u>Black</u>		<u>Asian/Other</u>	
	#	Rate	#	Rate	#	Rate	#	Rate
1980	550	7.6	483	7.2	62	13.3	5	4.6
1981	510	6.9	442	6.5	59	12.4	5	3.8
1982	573	7.6	494	7.1	75	15.7	3	-- ⁷
1983	482	6.3	411	5.9	63	13.4	7	4.3
1984	472	6.0	411	5.8	49	9.8	8	4.6
1985	538	6.6	447	6.0	85	16.0	5	2.8
1986	478	5.8	383	5.2	89	15.9	5	2.1
1987	432	5.1	343	4.6	80	12.7	9	3.4
1988	477	5.4	383	4.9	87	12.8	6	1.8
1989	479	5.2	376	4.7	95	12.8	8	2.3
1990	446	4.8	347	4.3	80	10.3	19	5.1
1991	400	4.5	318	4.1	72	9.8	10	2.8
1992	415	4.8	325	4.3	79	10.9	11	3.1
1993	375	4.4	300	4.1	66	9.5	9	2.4
1994	349	4.2	280	3.8	60	8.9	9	2.4

Table D-2 (Continued). Trends in Infant, Neonatal and Post Neonatal Deaths¹, Massachusetts: 1980-1994

Year	Post Neonatal Deaths ⁸							
	<u>Total</u>		<u>White</u>		<u>Black</u>		<u>Asian/Other</u>	
	#	Rate	#	Rate	#	Rate	#	Rate
1980	198	2.7	172	2.6	25	5.3	0	--
1981	200	2.7	174	2.6	26	5.8	3	--
1982	191	2.5	162	2.3	27	5.6	2	--
1983	200	2.7	168	2.4	26	5.6	5	3.1
1984	227	2.9	190	2.6	33	6.6	5	2.9
1985	207	2.5	161	2.1	41	7.8	6	3.3
1986	217	2.6	177	2.3	34	6.1	6	2.5
1987	176	2.1	143	1.8	30	4.8	3	--
1988	216	2.5	163	2.1	46	6.7	7	2.0
1989	218	2.4	173	2.1	36	4.9	9	2.5
1990	203	2.2	172	2.1	26	3.4	5	1.4
1991	176	2.0	142	1.8	30	4.1	4	--
1992	154	1.8	113	1.5	35	4.8	6	1.7
1993	148	1.7	123	1.7	21	3.0	4	--
1994	150	1.8	127	1.7	21	3.1	2	--

¹ Hispanic origin could not be identified on the Massachusetts death certificate before 1989; thus, Hispanic trend data are not available. Most Hispanics are included in the race category of white. ² Infant: A child less than one year (365 days) old. ³ Deaths of infants of unknown race are excluded except for total calculation. For rate computations, births of unknown race are allocated into race categories according to the distribution of births of known race. ⁴ Other: American Indian and other race. ⁵ Infant, neonatal and post neonatal mortality rates are per 1,000 live births. ⁶ Neonatal: A child less than 28 days old. ⁷ Calculations based on fewer than five events are excluded. ⁸ Post Neonatal: A child whose age is at least 28 days, but less than one year.

Table D-3. Infant, Neonatal, and Post Neonatal Deaths by Cause¹, Massachusetts: 1994

Cause of Death	ICD-9 Code	Infant [<1 year]		Neonatal [<28 days]		Post Neonatal [28-365 days]	
		#	% ^{2,3}	#	%	#	%
TOTAL		499	100%	349	100%	150	100%
Infectious and parasitic diseases							
Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues	001-139	7	1.4	3	--	4	--
Diseases of blood and blood-forming organs	140-208	1	--	0	--	1	--
Other diseases of nervous system and sense organs	280-289	1	--	0	--	1	--
Diseases of respiratory system	323-389	11	2.2	3	--	8	5.3
Diseases of digestive system	460-519	10	2.0	1	--	9	6.0
	520-579	4	--	2	--	2	--
Congenital anomalies							
Anencephalus and similar anomalies	740-759	120	24.0	85	24.4	35	23.3
Spina bifida	740	3	--	3	--	0	--
Congenital anomalies of central nervous system and eye	741	1	--	1	--	0	--
Congenital anomalies of heart	742-743	8	--	4	--	4	--
Other congenital anomalies of circulatory system	745-746	43	--	24	--	19	--
Congenital anomalies of respiratory system	747	12	--	18	--	4	--
Congenital anomalies of digestive system	748	17	--	16	--	1	--
Congenital anomalies of genitourinary system	749-751	1	--	1	--	0	--
Congenital anomalies of musculoskeletal system	752-753	4	--	4	--	0	--
Chromosomal anomalies	754-756	11	--	11	--	0	--
	758	10	--	5	--	5	--
Certain conditions originating in the perinatal period							
Newborn affected by maternal conditions which may be unrelated to present pregnancy	760-779	247	49.5	241	69.1	6	4.0
Newborn affected by maternal complications of pregnancy	760	1	--	1	--	0	--
Newborn affected by complications of placenta, cord and membrane	761	28	--	28	--	0	--
Slow fetal growth and fetal malnutrition	762	16	--	16	--	0	--
Disorders relating to short gestation and unspecified low birthweight	764	1	--	1	--	0	--
Birth trauma	765	80	--	80	--	0	--
Intrauterine hypoxia and birth asphyxia	767	5	--	5	--	0	--
Respiratory distress syndrome	768	4	--	4	--	0	--
Other respiratory conditions of newborn	769	35	--	34	--	1	--
Infections specific to the perinatal period	770	34	--	30	--	4	--
Neonatal hemorrhage	771	8	--	7	--	1	--
Other and ill-defined conditions originating in the perinatal period	772	3	--	3	--	0	--
	775-779	32	--	32	--	0	--
Symptoms, signs, and ill-defined conditions							
Sudden Infant Death Syndrome (SIDS)	780-799	69	13.8	7	2.0	62	41.3
Accidents and adverse effects	798.0	58	--	5	--	53	--
Inhalation and ingestion of food or other object causing obstruction of respiratory tract or suffocation	E800-E949	8	1.6	1	0.3	7	4.7
Accidental mechanical suffocation	E911-E912	1	--	0	--	1	--
Homicide	E913	2	--	0	--	2	--
All other causes	E960-E969	3	--	0	--	3	--
	Residual	18	3.6	6	1.7	12	8.0

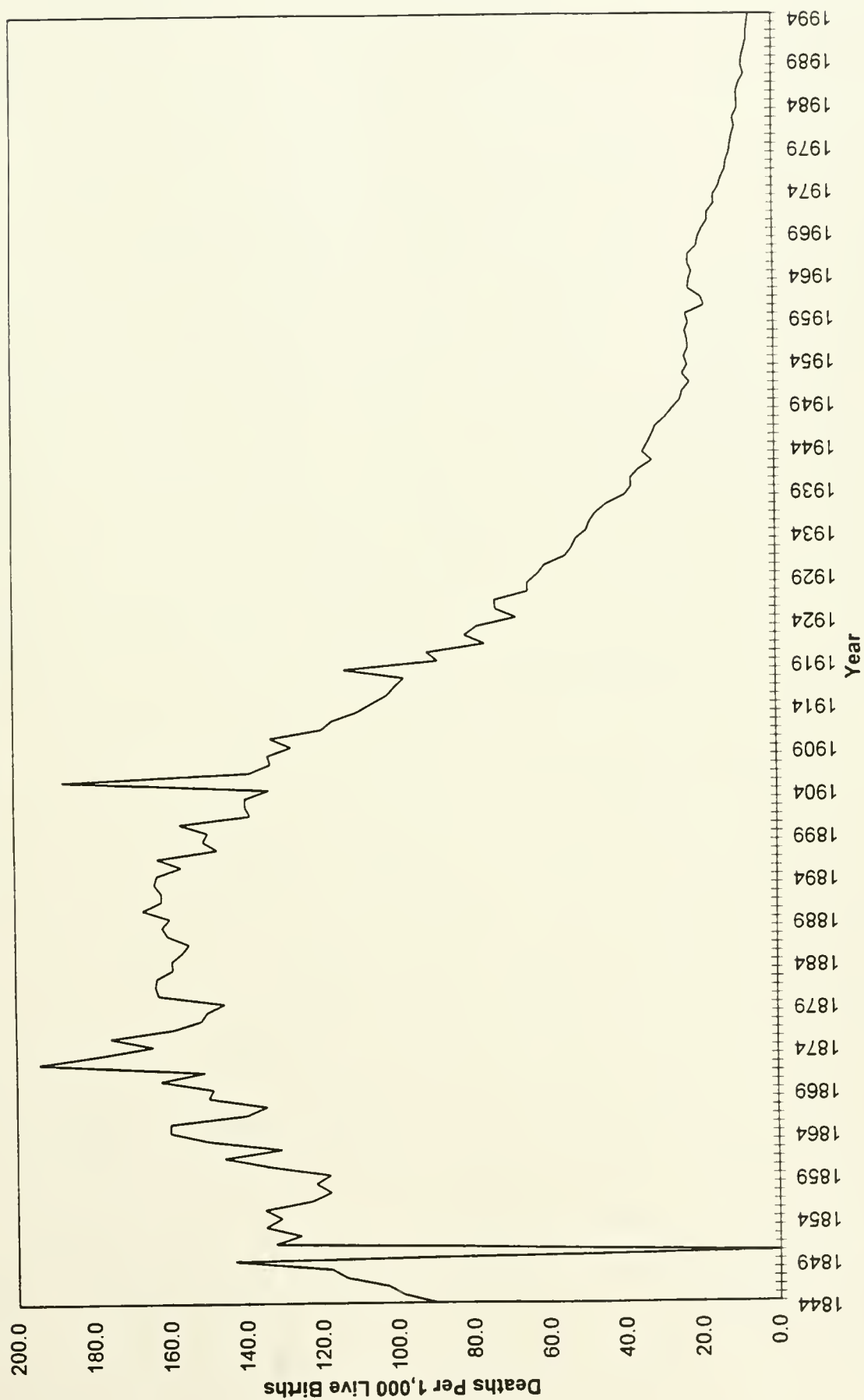
¹ The ICD-9 cause categories presented in this table are different from previous years. ² Percents not calculated for subcategories. ³ Calculations based on fewer than five events are excluded

Table D-4. Infant Deaths by Cause¹, Race and Hispanic Ethnicity, Massachusetts: 1994

Cause of Death	White			Black			Hispanic ⁴		
	ICD-9 Code	#	% ^{2,3}	#	%	#	%	#	%
TOTAL		407	100%	81	100%	64	100%		
Infectious and parasitic diseases									
Malignant neoplasms, including lymphatic and hematopoietic tissues	001-139	6	1.5	1	--	1	--	1	--
Diseases of blood and blood-forming organs	140-208	1	--	0	0	0	0	0	0
Other diseases of nervous system and sense organs	280-289	1	--	0	0	0	0	0	0
Diseases of the respiratory system	323-389	11	2.7	0	0	2	--	2	--
Diseases of the digestive system	460-519	9	2.2	1	--	0	0	0	0
	520-579	3	--	1	--	0	0	0	0
Congenital anomalies									
Anencephalus and similar anomalies	740-759	104	25.6	13	16.0	21	32.8		
Spina bifida	740	3	--	0	--	0	--		
	741	1	--	0	--	0	--		
Congenital anomalies of central nervous system and eye	742-743	7	--	1	--	2	--		
Congenital anomalies of heart	745-746	42	--	1	--	11	--		
Other congenital anomalies of circulatory system	747	10	--	2	--	2	--		
Congenital anomalies of respiratory system	748	13	--	2	--	1	--		
Congenital anomalies of digestive system	749-751	1	--	0	--	0	--		
Congenital anomalies of genitourinary system	752-753	4	--	0	--	0	--		
Congenital anomalies of musculoskeletal system	754-756	8	--	2	--	4	--		
Chromosomal anomalies	758	8	--	2	--	0	--		
Certain conditions originating in the perinatal period									
Newborn affected by maternal conditions which may be unrelated to present pregnancy	760-779	195	47.9	46	56.8	30	46.9		
Newborn affected by maternal complications of pregnancy	760	0	--	1	--	0	--		
Newborn affected by complications of placenta, cord and membrane	761	17	--	9	--	3	--		
Slow fetal growth and fetal malnutrition	762	14	--	2	--	4	--		
Disorders relating to short gestation and unspecified low birthweight	764	1	--	0	--	0	--		
Birth trauma	765	64	--	15	--	11	--		
Intrauterine hypoxia and birth asphyxia	767	4	--	1	--	0	--		
Respiratory distress syndrome	768	3	--	1	--	1	--		
Other respiratory conditions of newborn	769	33	--	2	--	3	--		
Infections specific to the perinatal period	770	30	--	3	--	3	--		
Neonatal hemorrhage	771	4	--	4	--	1	--		
Other and ill-defined conditions originating in the perinatal period	772	3	--	0	--	0	--		
	775-779	22	--	8	--	4	--		
Symptoms, signs, and ill-defined conditions									
Sudden Infant Death Syndrome (SIDS)	780-799	57	14.0	10	12.3	8	12.5		
	798.0	49	--	8	--	8	--		
Accidents and adverse effects									
Inhalation and ingestion of food or other object causing obstruction of respiratory tract or suffocation	E800-E949	8	1.5	2	--	2	--		
Accidental mechanical suffocation	E911-E912	1	--	0	--	0	--		
	E913	1	--	1	--	0	--		
Homicide	E980-E969	2	--	1	--	0	0		
All other causes	Residual	12	2.9	6	7.4	0	0		

¹ The ICD-9 cause categories presented in this table are different from previous years. ² Percents not calculated for subcategories. ³ Calculations based on fewer than five events are excluded. ⁴ Persons of Hispanic ethnicity are also included in the race categories, consistent with the U.S. Census population classification.

Figure D-3. Infant Mortality Rates, Massachusetts: 1844-1994



Data not available for 1850.

MARRIAGES & DIVORCES

SECTION E

MARRIAGES AND DIVORCES

Marriages and divorces are reported by place of occurrence in Massachusetts. For example, if two Malden residents are married in Everett, this marriage will be reported by place of occurrence (Everett) rather than the residence of the couple (Malden). Marriages have traditionally been reported in this manner because of the number of couples who live in different communities. Additionally, out-of-state residents who marry in Massachusetts are included in these data.

Marriages and divorces which involve Massachusetts residents, but occur in other states, are not included in these figures. No system of interstate exchange exists for these events. Unlike some states, Massachusetts marriage and divorce laws neither encourage out-of-state residents to come to the state nor discourage residents from using the Massachusetts system by imposing long waiting periods, etc. This allows the marriage data to be used to estimate resident marriages.

In 1994, 42,503 marriages occurred in Massachusetts compared to 42,355 in 1993, a slight increase of 0.3%. The rate of marriages was 7.0 per 1,000 population in 1994, the same rate as 1993. The 1994 U.S. rate of marriages per 1,000 population was 9.1, slightly more than the 1993 U.S. rate of 9.0. Of all brides in Massachusetts in 1994, 74.7% had never previously been married. This percentage was slightly less among the grooms--74.0%.

In 1994, 15,450 divorces were granted in Massachusetts, an increase of 7.0% from the 14,435 divorces granted in 1993. The 1994 rate of divorce per 1,000 population in Massachusetts was 2.5, slightly higher than the 1993 divorce rate of 2.4. This rate was well below the 1994 U.S. rate of 4.6 divorces per 1,000 population.

RATES IMPORTANT FOR THIS SECTION INCLUDE:

MARRIAGE RATE	$\frac{\text{Number of Occurrence Marriages}}{\text{Total Population}} \times 1,000$
---------------	--

DIVORCE RATE	$\frac{\text{Number of Occurrence Divorces}}{\text{Total Population}} \times 1,000$
--------------	---

Table E-1. Marriages and Divorces by County

Massachusetts Occurrence: 1994

	<u>Marriages</u>	<u>Divorces</u>
State Total	42,503	15,450
<u>Counties</u>		
Barnstable	2,093	610
Berkshire	1,072	502
Bristol	3,564	1,707
Dukes	388	49
Essex	4,952	1,850
Franklin	443	268
Hampden	3,063	1,173
Hampshire	918	372
Middlesex	9,251	2,775
Nantucket	303	32
Norfolk	3,991	1,565
Plymouth	3,072	1,541
Suffolk	4,651	841
Worcester	4,742	2,165

**Figure E-1. Rates of Marriages and Divorces per 1,000 Population:
1900-1994**

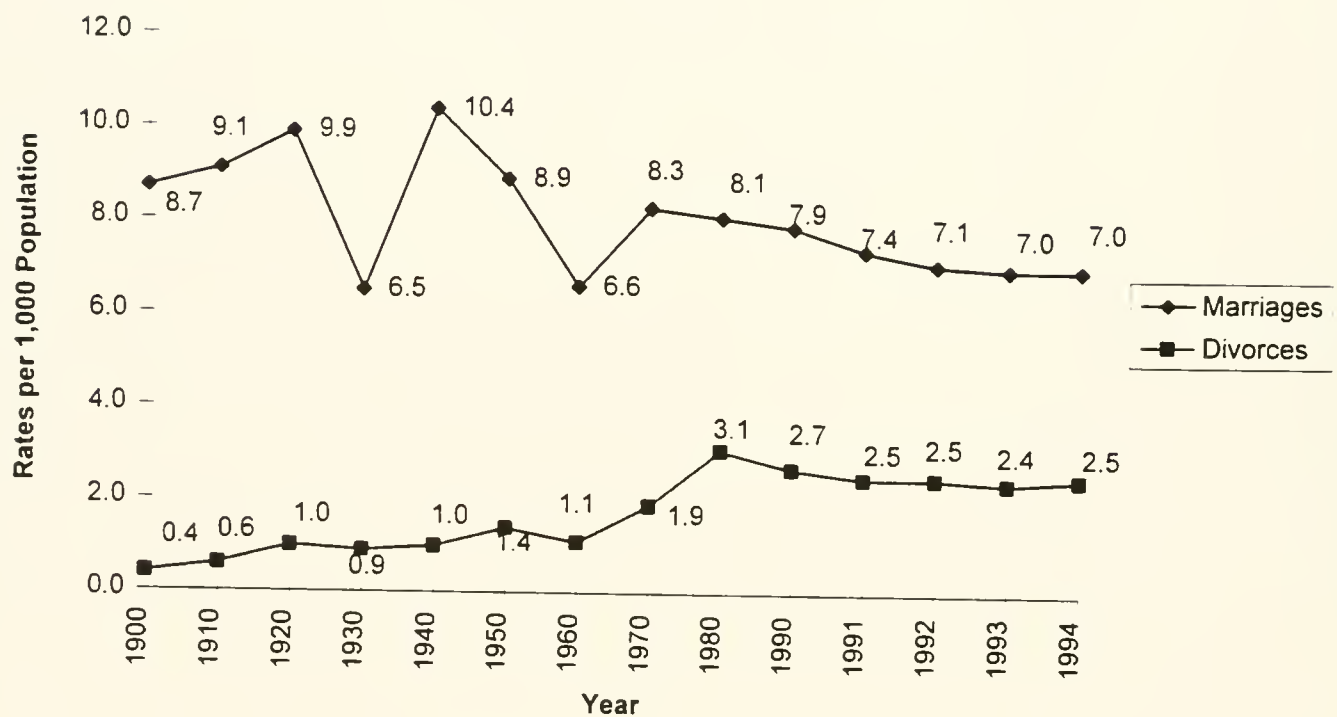


Table E-2. Marriages and Divorces and Rates Per 1,000 Population

Massachusetts Occurrence: 1900-1994

Year	<u>Marriages</u>		<u>Divorces</u>	
	Number	Rate	Number	Rate
1900	24,342	8.7	1,258	0.4
1905	27,184	9.1	1,554	0.5
1910	30,710	9.1	1,929	0.6
1915	31,301	8.5	2,252	0.6
1920	38,048	9.9	3,647	1.0
1925	31,238	7.5	3,395	0.8
1930	27,431	6.5	3,746	0.9
1935	30,019	6.9	4,081	0.9
1940	44,836	10.4	4,502	1.0
1945	38,197	8.5	6,833	1.5
1950	41,711	8.9	6,365	1.4
1955	35,585	7.3	5,601	1.2
1960	34,050	6.6	5,592	1.1
1965	38,281	7.2	7,728	1.5
1970	47,292	8.3	10,818	1.9
1975	42,103	7.3	16,460	2.8
1980	46,273	8.1	17,873	3.1
1981	47,802	8.3	19,502	3.4
1982	48,654	8.4	19,531	3.4
1983	48,789	8.4	18,477	3.2
1984	50,302	8.7	17,123	3.0
1985	49,849	8.6	21,573	3.7
1986	49,990	8.6	19,809	3.4
1987	49,034	8.4	16,994	2.9
1988	49,941	8.5	17,676	3.0
1989	49,174	8.4	16,819	2.9
1990	47,786	7.9	16,258	2.7
1991	44,621	7.4	14,987	2.5
1992	43,228	7.1	15,411	2.5
1993	42,355	7.0	14,435	2.4
1994	42,503	7.0	15,450	2.5

Table E-3. Marriages by Age and Marital Status

Massachusetts Occurrence: 1994

<u>Bride</u>								
Age	Total		Single		Widowed		Divorced	
	Number	% ¹	Number	%	Number	%	Number	%
Total	42,503	100.0	31,757	74.7	866	2.0	9,880	23.2
< 20	1,382	100.0	1,375	99.5	0	0.0	7	0.5
20-29	23,845	100.0	22,103	92.7	37	0.2	1,705	7.1
30-39	12,115	100.0	7,281	60.1	161	1.3	4,673	38.6
40-49	3,650	100.0	855	23.4	195	5.3	2,600	71.2
50-59	1,033	100.0	108	10.4	164	15.9	761	73.7
60-69	351	100.0	30	8.5	199	56.7	122	34.8
≥ 70	127	100.0	5	3.9	110	86.6	12	9.4
<u>Groom</u>								
Age	Total		Single		Widowed		Divorced	
	Number	%	Number	%	Number	%	Number	%
Total	42,503	100.0	31,452	74.0	932	2.2	10,119	23.8
< 20	460	100.0	460	100.0	0	0.0	0	0.0
20-29	20,435	100.0	19,547	95.7	7	•• ²	881	4.3
30-39	14,320	100.0	10,022	70.0	65	0.4	4,233	29.6
40-49	4,660	100.0	1,215	26.1	134	2.9	3,311	71.0
50-59	1,653	100.0	149	9.0	209	12.6	1,295	78.3
60-69	647	100.0	39	6.0	273	42.2	335	51.8
≥ 70	328	100.0	20	6.1	244	74.4	64	19.5

¹ Percents may not sum to 100.0 due to rounding.

² Percentage less than 0.1%.

Table E-4. Number of Marriages by Age of Bride and Age of Groom

Massachusetts Occurrence: 1994

Age of Bride	Age of Groom							
	Total	< 20	20-29	30-39	40-49	50-59	60-69	≥ 70
Total	42,503	460	20,435	14,320	4,660	1,653	647	328
< 20	1,382	295	990	93	4	0	0	0
20-29	23,845	155	17,170	5,975	500	43	1	1
30-39	12,115	7	2,158	7,317	2,259	326	41	7
40-49	3,650	3	110	877	1,684	785	161	30
50-59	1,033	0	5	55	206	452	250	65
60-69	351	0	2	3	7	43	179	117
≥ 70	127	0	0	0	0	4	15	108

Table E-5. Number of Marriages for Bride by Number of Marriages for Groom

Massachusetts Occurrence: 1994

Bride	Number of Marriages Groom					
	Total	1	2	3	4	≥ 5
Total	42,503	31,452	9,282	1,568	169	32
1	31,756	27,117	4,129	461	42	7
2	9,051	3,871	4,278	806	82	14
3	1,482	410	773	262	34	3
4	191	46	91	37	10	7
≥ 5	23	8	11	2	1	1

POPULATION

SECTION F

POPULATION

The population data in this section are presented for use in computing rates for small areas and for reporting changes over time by municipality and county. They are based primarily on the U.S. Federal Census for 1990.

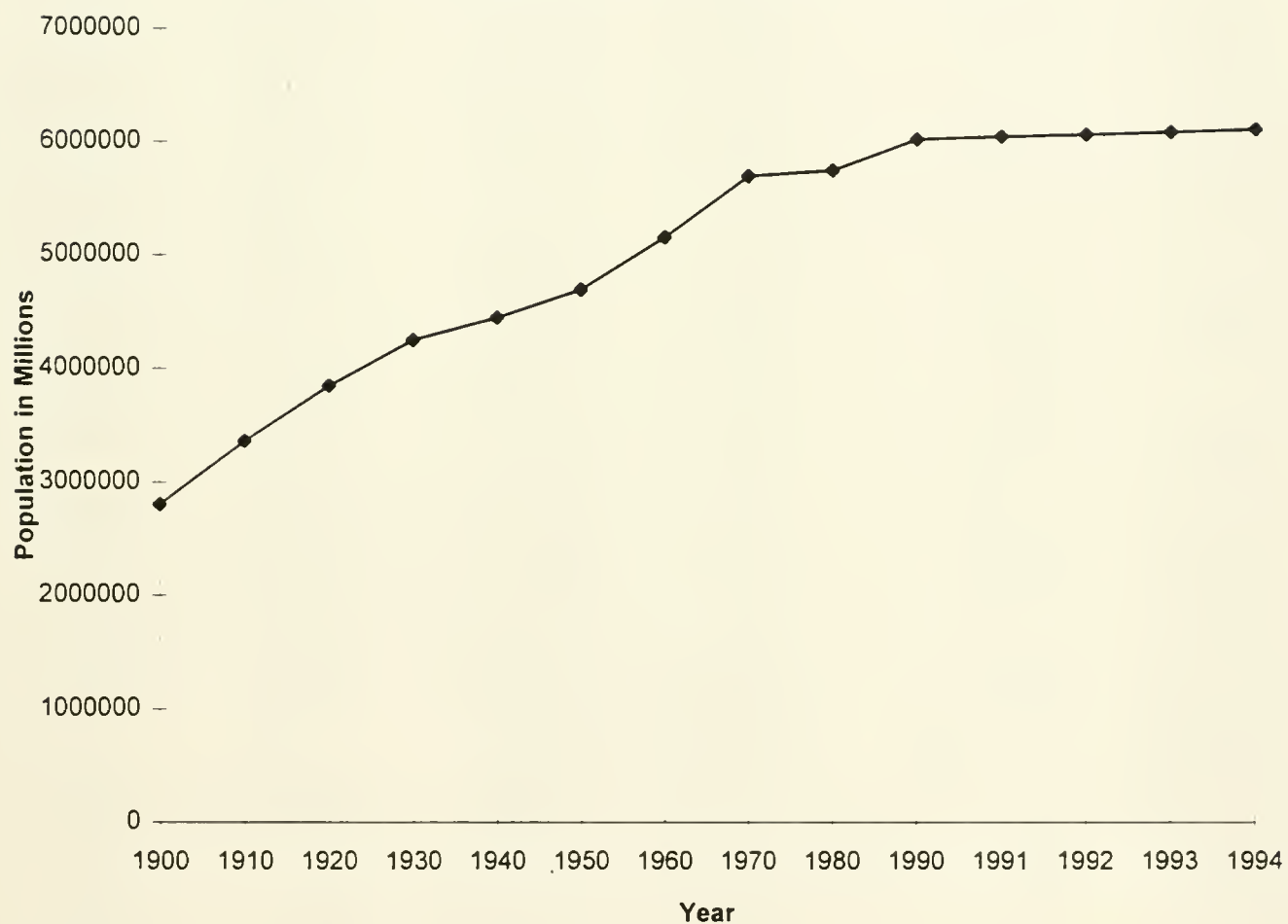
Prior to 1985, the Massachusetts State Census method of enumeration differed from the federal census. Generally, the state figures excluded non-resident students and military families residing in the Commonwealth; they are included in the U.S. Census definition of resident.

The Massachusetts population estimates for the years 1981-1989 (Table F-4) are calculated as linear interpolations from 1980 and 1990 U.S. Federal Census data. The 1994 population estimate is an interpolation of the 1990 U.S. Federal Census and MISER projections for 1995.

All additional interpolations and calculations have been provided by Robert A. Danley, Ph.D., and Yong Chen, Division of Research and Epidemiology, Bureau of Health Statistics, Research and Evaluation, Massachusetts Department of Public Health.

In 1994, there were an estimated 6,105,460 residents of Massachusetts. This represents a 4.4% increase in population since 1984, when the population numbered 5,848,792. Among the total 1994 population in Massachusetts, almost 48% were male, 25.6% were below the age of 20, and 6.4% were over 75 years of age.

Figure F-1. Massachusetts Population: 1900-1994



Population figures for 1900 through 1990 are taken from U.S. Federal Census data. Population estimates for 1981-1989 were calculated as linear interpolations from 1980 and 1990 U.S. Federal Census data. The 1991-1994 population estimates are interpolations of the 1990 U.S. Federal Census and MISER projections for 1995.

Table F-1. Population by Race, Age and Sex, Massachusetts: 1990¹

Age	Sex	Total	White	Black	Other
Under 1	Male	46,018	40,463	3,925	1,630
	Female	44,125	38,546	3,926	1,653
	Total	90,143	79,009	7,851	3,283
1-4	Male	169,427	149,849	13,663	5,915
	Female	161,779	142,349	13,489	5,941
	Total	331,206	292,198	27,152	11,856
5-9	Male	193,482	172,170	14,393	6,919
	Female	183,137	162,336	14,104	6,697
	Total	376,619	334,506	28,497	13,616
10-14	Male	177,899	159,257	13,226	5,416
	Female	169,117	150,743	12,916	5,458
	Total	347,016	310,000	26,142	10,874
15-19	Male	209,289	187,227	14,627	7,435
	Female	206,741	184,529	14,595	7,617
	Total	416,030	371,756	29,222	15,052
20-24	Male	256,657	231,290	16,344	9,023
	Female	260,537	234,182	17,002	9,353
	Total	517,194	465,472	33,346	18,376
25-29	Male	277,295	251,142	16,785	9,368
	Female	279,025	252,738	17,311	8,976
	Total	556,320	503,880	34,096	18,344
30-34	Male	268,701	244,766	15,346	8,589
	Female	273,629	249,299	15,867	8,463
	Total	542,330	494,065	31,213	17,052
35-39	Male	237,202	217,981	12,403	6,818
	Female	243,972	223,847	13,153	6,972
	Total	481,174	441,828	25,556	13,790
40-44	Male	211,399	196,542	9,811	5,046
	Female	221,975	206,029	10,619	5,327
	Total	433,374	402,571	20,430	10,373
45-49	Male	162,636	152,146	7,024	3,466
	Female	170,698	159,100	8,211	3,387
	Total	333,334	311,246	15,235	6,853

¹ Figures are from the 1990 U.S. Census.

Table F-1. (continued) Population by Race, Age and Sex, Massachusetts: 1990

Age	Sex	Total	White	Black	Other
50-54	Male	126,581	118,555	5,246	2,780
	Female	136,020	127,187	6,274	2,559
	Total	262,601	245,742	11,520	5,339
55-59	Male	120,175	113,887	4,238	2,050
	Female	131,999	124,575	5,263	2,161
	Total	252,174	238,462	9,501	4,211
60-64	Male	121,609	116,299	3,762	1,548
	Female	140,296	133,558	4,844	1,894
	Total	261,905	249,857	8,606	3,442
65-69	Male	110,424	106,135	3,064	1,225
	Female	140,959	135,442	4,083	1,434
	Total	251,383	241,577	7,147	2,659
70-74	Male	85,541	82,863	1,965	713
	Female	121,790	117,883	2,973	934
	Total	207,331	200,746	4,938	1,647
75-79	Male	59,037	57,350	1,199	488
	Female	100,616	97,776	2,156	684
	Total	159,653	155,126	3,355	1,172
80-84	Male	33,468	32,561	669	238
	Female	72,831	71,105	1,338	388
	Total	106,299	103,666	2,007	626
≥ 85	Male	21,905	21,324	439	142
	Female	68,434	66,965	1,187	282
	Total	90,339	88,289	1,626	424
Total	Male	2,888,745	2,651,807	158,129	78,809
	Female	3,127,680	2,878,189	169,311	80,180
	Total	6,016,425	5,529,996	327,440	158,989

Figure F-2. 1990 Massachusetts Population by Age

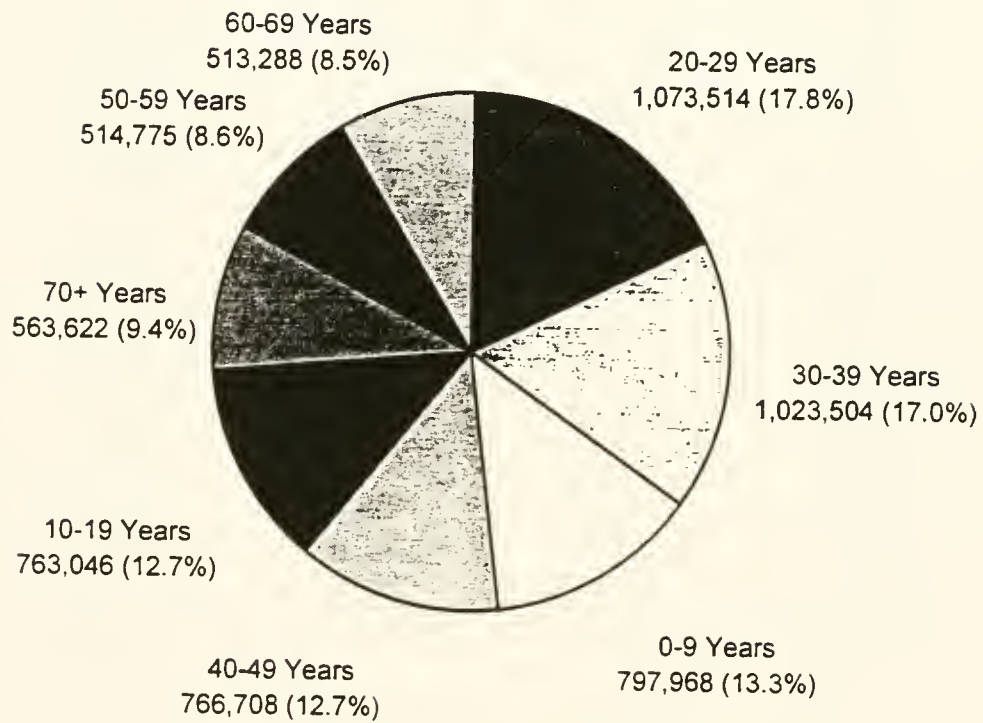


Figure F-3. 1990 Massachusetts Population by Race



Table F-2. Massachusetts Population by County: 1960-1990

	Federal 1960	State 1965 ¹	Federal 1970	State 1975 ²	Federal 1980	State 1985 ³	Federal 1990 ⁴
State	5,148,578	5,418,878	5,689,170	5,713,107	5,737,037	5,876,734	6,016,425
<u>Counties</u>							
Barnstable	70,286	83,471	96,656	122,291	147,925	167,265	186,605
Berkshire	142,135	145,769	149,402	147,256	145,110	142,231	139,352
Bristol	398,488	421,395	444,301	459,471	474,641	490,483	506,325
Dukes	5,829	5,973	6,117	7,530	8,942	10,291	11,639
Essex	568,831	603,359	637,887	635,760	633,632	651,856	670,080
Franklin	54,864	57,037	59,210	61,764	64,317	67,205	70,092
Hampden	429,353	444,202	459,050	451,034	443,018	449,664	456,310
Hampshire	103,229	113,605	123,981	131,397	138,813	142,691	146,568
Middlesex	1,238,742	1,318,005	1,397,268	1,382,151	1,367,034	1,382,751	1,398,468
Nantucket	3,559	3,667	3,774	4,431	5,087	5,550	6,012
Norfolk	510,256	557,654	605,051	605,819	606,587	611,337	616,087
Plymouth	248,449	290,882	333,314	369,376	405,437	420,357	435,276
Suffolk	791,329	763,260	735,190	692,666	650,142	657,024	663,906
Worcester	583,228	610,599	637,969	642,161	646,352	678,029	709,705

¹ 1965 State Census figures are interpolations of the 1960 and 1970 U.S. Census counts. ² 1975 State Census figures are interpolations of the 1970 and 1980 U.S. Census counts. ³ 1985 State Census figures are interpolations of the 1980 and 1990 U.S. Census counts. ⁴ Figures are from the 1990 U.S. Census.

Table F-3. Massachusetts Population by City and Town: 1980 and 1990

City/Town	1980 US Census	1990 US Census	City/Town	1980 US Census	1990 US Census
Abington	13,517	13,817	Dover	4,703	4,915
Acton	17,544	17,872	Dracut	21,249	25,594
Acushnet	8,704	9,554	Dudley	8,717	9,540
Adams	10,381	9,445	Dunstable	1,671	2,236
Agawam	26,271	27,323	Duxbury	11,807	13,895
Alford	394	418	East Bridgewater	9,945	11,104
Amesbury	13,971	14,997	East Brookfield	1,955	2,033
Amherst	33,229	35,228	East Longmeadow	12,905	13,367
Andover	26,370	29,151	Eastham	3,472	4,462
Arlington	48,219	44,630	Easthampton	15,580	15,537
Ashburnham	4,075	5,433	Easton	16,623	19,807
Ashby	2,311	2,717	Edgartown	2,204	3,062
Ashfield	1,458	1,715	Egremont	1,311	1,229
Ashland	9,165	12,066	Erving	1,326	1,372
Athol	10,634	11,451	Essex	2,998	3,260
Attleboro	34,196	38,383	Everett	37,195	35,701
Auburn	14,845	15,005	Fairhaven	15,759	16,132
Avon	5,026	4,558	Fall River	92,574	92,703
Ayer	6,993	6,871	Falmouth	23,640	27,960
Barnstable	30,898	40,949	Fitchburg	39,580	41,194
Berre	4,102	4,546	Florida	730	742
Becket	1,339	1,481	Foxborough	14,148	14,637
Bedford	13,067	12,996	Frammingham	65,113	64,989
Belchertown	8,339	10,579	Franklin	18,217	22,095
Bellingham	14,300	14,877	Freetown	7,058	8,522
Belmont	26,100	24,720	Gardner	17,900	20,125
Berkley	2,731	4,237	Gay Head	220	201
Berlin	2,215	2,293	Georgetown	5,687	6,384
Bernardston	1,750	2,048	Gill	1,259	1,583
Beverly	37,655	38,195	Gloucester	27,768	28,716
Billerica	36,727	37,609	Goshen	651	830
Blackstone	6,570	8,023	Gosnold	63	98
Blanford	1,038	1,187	Grafton	11,238	13,035
Bolton	2,530	3,134	Granby	5,380	5,565
Boston	562,994	574,283	Grenville	1,204	1,403
Bourne	13,874	16,064	Great Barrington	7,405	7,725
Boxborough	3,126	3,343	Greenfield	18,436	18,666
Boxford	5,374	6,266	Groton	6,154	7,511
Boylston	3,470	3,517	Groveland	5,040	5,214
Braintree	36,337	33,836	Hadley	4,125	4,231
Brewster	5,226	8,440	Halifax	5,513	6,526
Bridgewater	17,202	21,249	Hamilton	6,960	7,280
Brimfield	2,318	3,001	Hampden	4,745	4,709
Brockton	95,172	92,788	Hancock	643	628
Brookfield	2,397	2,968	Hanover	11,358	11,912
Brookline	55,062	54,718	Henson	8,617	9,028
Buckland	1,864	1,928	Hardwick	2,272	2,385
Burlington	23,486	23,302	Harvard	12,170	12,329
Cambridge	95,322	95,802	Herwich	8,971	10,275
Canton	18,182	18,530	Hatfield	3,045	3,184
Carlisle	3,306	4,333	Haverhill	46,865	51,418
Carter	6,988	10,590	Hewley	280	317
Charlemont	1,149	1,249	Heath	482	716
Charlton	6,719	9,576	Hingham	20,339	19,821
Chatham	6,071	6,579	Hinsdale	1,707	1,959
Chelmsford	31,174	32,383	Holbrook	11,140	11,041
Chelsea	25,431	28,710	Holden	13,336	14,628
Cheshire	3,124	3,479	Holland	1,589	2,185
Chester	1,123	1,280	Holliston	12,622	12,926
Chesterfield	1,000	1,048	Holyoke	44,678	43,704
Chicopee	55,112	56,632	Hopedale	3,905	5,666
Chilmark	489	650	Hopkinton	7,114	9,191
Clerksburg	1,871	1,745	Hubbardston	1,797	2,797
Clinton	12,771	13,222	Hudson	16,408	17,233
Cohasset	7,174	7,075	Hull	9,714	10,466
Colrain	1,552	1,757	Huntington	1,804	1,987
Concord	16,293	17,076	Ipswich	11,158	11,873
Conway	1,213	1,529	Kingston	7,362	9,045
Cummington	657	785	Lakeville	5,931	7,785
Danvers	6,797	7,155	Lancaster	6,334	6,661
Dartmouth	23,966	27,244	Lenoxborough	3,131	3,032
Dedham	25,298	23,782	Lewrence	63,175	70,207
Deerfield	4,517	5,018	Lee	6,247	5,849
Dennis	12,360	13,864	Leicester	9,446	10,191
Dighton	5,352	5,631	Lenox	6,523	5,069
Douglas	3,730	5,438	Leominster	34,508	38,145
			Leverett	1,471	1,785

Table F-3. Massachusetts Population by City and Town: 1980 and 1990

City/Town	1980 US Census	1990 US Census	City/Town	1980 US Census	1990 US Census
Lexington	29,479	28,974	Pepperell	8,061	10,098
Leyden	498	662	Peru	633	779
Lincoln	7,098	7,666	Petersham	1,024	1,131
Littlaton	6,970	7,051	Phillipston	953	1,485
Longmeadow	16,301	15,467	Pittsfield	51,974	48,622
Lowell	92,418	103,439	Plainfield	425	571
Ludlow	18,150	18,820	Plainville	5,857	6,871
Lunenburg	8,405	9,117	Plymouth	35,913	45,608
Lynn	78,471	81,245	Plympton	1,974	2,384
Lynnfield	11,267	11,274	Princeton	2,425	3,189
Malden	53,386	53,884	Provincetown	3,536	3,561
Manchester	5,424	5,286	Quincy	84,743	84,985
Mansfield	13,453	16,568	Randolph	28,218	30,093
Marblehead	20,126	19,971	Raynham	9,085	9,867
Marion	3,932	4,496	Reading	22,678	22,539
Marlborough	30,617	31,813	Rahoboth	7,570	8,656
Marshfield	20,916	21,531	Ravara	42,423	42,786
Mashpee	3,700	7,884	Richmond	1,659	1,677
Mattapoisett	5,597	5,850	Rochester	3,205	3,921
Maynard	9,590	10,325	Rockland	15,695	16,123
Medfield	10,220	10,531	Rockport	6,345	7,482
Medford	58,076	57,407	Rowa	336	378
Medway	8,447	9,931	Rowley	3,867	4,452
Melrose	30,055	28,150	Royalston	955	1,147
Mendon	3,108	4,010	Russell	1,570	1,594
Merrimac	4,451	5,166	Rutland	4,334	4,936
Methuen	36,701	39,990	Salem	38,220	38,091
Middleborough	16,404	17,867	Salisbury	5,973	6,882
Middlefield	385	392	Sandisfield	720	667
Middleton	4,135	4,921	Sandwich	8,727	15,489
Milford	23,390	25,355	Saugus	24,746	25,549
Milbury	11,808	12,228	Savoy	644	634
Milis	6,908	7,613	Scituate	17,317	16,786
Millville	1,693	2,236	Seekonk	12,269	13,046
Milton	25,860	25,725	Sharon	13,601	15,517
Monroe	179	115	Sheffield	2,743	2,910
Monson	7,315	7,776	Shelburne	2,002	2,012
Montague	8,011	8,316	Sherborn	4,049	3,989
Monterey	818	805	Shirley	5,124	6,118
Montgomery	637	759	Shrewsbury	22,674	24,146
Mount Washington	93	135	Shutesbury	1,049	1,561
Nahant	3,947	3,828	Somerset	18,813	17,655
Nantucket	5,087	6,012	Somerville	77,372	76,210
Netuck	29,461	30,510	South Hadley	16,399	16,685
Needham	27,901	27,557	Southampton	4,137	4,478
New Ashford	159	192	Southborough	6,193	6,628
New Bedford	98,478	99,922	Southbridge	16,665	17,816
New Braintree	671	881	Southwick	7,382	7,667
New Marlborough	1,160	1,240	Spencer	10,774	11,645
New Salem	688	802	Springfield	152,319	156,983
Newbury	4,529	5,623	Sterling	5,440	6,481
Newburyport	15,900	16,317	Stockbridge	2,328	2,408
Newton	83,622	82,585	Stoneham	21,424	22,203
Norfolk	6,363	9,270	Stoughton	26,710	26,777
North Adams	18,063	16,797	Stow	5,144	5,328
North Andover	20,129	22,792	Sturbridge	5,976	7,775
North Attleboro	21,095	25,038	Sudbury	14,027	14,358
North Brookfield	4,150	4,708	Sunderland	2,929	3,399
North Reading	11,455	12,002	Sutton	5,855	6,824
Northampton	29,286	29,289	Swampscott	13,837	13,650
Northborough	10,568	11,929	Swansea	15,461	15,411
Northbridge	12,246	13,371	Taunton	45,001	49,832
Northfield	2,386	2,838	Templeton	6,070	6,438
Norton	12,690	14,265	Tewksbury	24,635	27,266
Norwell	9,182	9,279	Tisbury	2,972	3,120
Norwood	29,711	28,700	Tolland	235	289
Oak Bluffs	1,984	2,804	Topshfield	5,709	5,754
Oakham	994	1,503	Townsend	7,201	8,496
Orange	6,844	7,312	Truro	1,486	1,573
Orleans	5,306	5,838	Tyngsborough	5,683	8,642
Otis	963	1,073	Tyringham	344	369
Oxford	11,680	12,588	Upton	3,886	4,677
Palmer	11,389	12,054	Uxbridge	8,374	10,415
Paxton	3,762	4,047	Wakarusa	24,895	24,825
Peabody	45,976	47,039	Wales	1,177	1,566
Pelham	1,112	1,373	Walpole	18,859	20,212
Pembroke	13,487	14,544	Waltham	58,200	57,878

Table F-3. Massachusetts Population by City and Town: 1980 and 1990

City/Town	1980 US Census	1990 US Census
Ware	8,953	9,808
Wareham	18,457	19,232
Warren	3,777	4,437
Warwick	603	740
Washington	587	615
Watertown	34,384	33,284
Wayland	12,170	11,874
Webster	14,480	16,196
Wellesley	27,209	26,615
Wellesley Hills	2,209	2,493
Wendell	694	899
Wenham	3,897	4,212
West Boylston	6,204	6,611
West Bridgewater	6,359	6,389
West Brookfield	3,026	3,532
West Newbury	2,861	3,421
West Springfield	27,042	27,537
West Stockbridge	1,280	1,483
West Tisbury	1,010	1,704
Westborough	13,619	14,133
Westfield	36,465	38,372
Westford	13,434	16,392
Westhampton	1,137	1,327
Westminster	5,139	6,191
Weston	11,169	10,200
Westport	13,763	13,852
Westwood	13,212	12,557
Weymouth	55,601	54,063
Whately	1,341	1,375
Whitman	13,534	13,240
Wilbraham	12,053	12,635
Williamsburg	2,237	2,515
Williamstown	8,741	8,220
Wilmington	17,471	17,651
Winchendon	7,019	8,805
Winchester	20,701	20,267
Windsor	598	770
Winthrop	19,294	18,127
Woburn	36,626	35,943
Worcester	161,799	169,759
Worthington	932	1,156
Worthington	7,580	9,006
Yarmouth	18,449	21,174
Statewide Totals	5,737,037	6,016,425

Table F-4. Population Counts and Estimates, Massachusetts: 1980-1994

AGE GROUP	YEAR	TOTAL	MALE	FEMALE
0-4	1980	337,215	173,029	164,186
	1981	345,629	177,271	168,358
	1982	354,042	181,512	172,530
	1983	362,455	185,754	176,701
	1984	370,868	189,995	180,873
	1985	379,282	194,237	185,045
	1986	387,696	198,479	189,217
	1987	396,109	202,720	193,389
	1988	404,522	206,962	197,560
	1989	412,935	211,203	201,732
	1990	421,349	215,445	205,904
	1991	414,476	211,926	202,550
	1992	407,605	208,426	199,179
	1993	400,717	204,902	195,815
	1994	393,842	201,388	192,454
5-9	1980	374,734	191,602	183,132
	1981	374,923	191,790	183,133
	1982	375,111	191,978	183,133
	1983	375,300	192,166	183,134
	1984	375,488	192,354	183,134
	1985	375,677	192,542	183,135
	1986	375,865	192,730	183,135
	1987	376,054	192,918	183,136
	1988	376,242	193,106	183,136
	1989	376,431	193,294	183,137
	1990	376,619	193,482	183,137
	1991	377,918	194,157	183,761
	1992	379,195	194,814	184,381
	1993	380,489	195,470	185,019
	1994	381,766	196,130	185,636
10-14	1980	461,332	235,669	225,663
	1981	449,900	229,892	220,008
	1982	438,469	224,115	214,354
	1983	427,037	218,338	208,699
	1984	415,606	212,561	203,045
	1985	404,174	206,784	197,390
	1986	392,742	201,007	191,735
	1987	381,311	195,230	186,081
	1988	369,879	189,453	180,426
	1989	358,448	183,676	174,772
	1990	347,016	177,899	169,117
	1991	353,412	181,166	172,246
	1992	359,812	184,427	175,385
	1993	366,212	187,702	178,510
	1994	372,612	190,963	181,649

Table F-4. Population Counts and Estimates, Massachusetts: 1980-1994

AGE GROUP	YEAR	TOTAL	MALE	FEMALE
15-19	1980	548,239	274,859	273,380
	1981	535,018	268,302	266,716
	1982	521,797	261,745	260,052
	1983	508,576	255,188	253,388
	1984	495,355	248,631	246,724
	1985	482,135	242,074	240,061
	1986	468,914	235,517	233,397
	1987	455,693	228,960	226,733
	1988	442,472	222,403	220,069
	1989	429,251	215,846	213,405
	1990	416,030	209,289	206,741
	1991	415,428	209,079	206,349
	1992	414,832	208,856	205,976
	1993	414,213	208,652	205,561
	1994	413,615	208,424	205,191
20-24	1980	552,902	270,713	282,189
	1981	549,331	269,307	280,024
	1982	545,761	267,902	277,859
	1983	542,189	266,496	275,693
	1984	538,619	265,091	273,528
	1985	535,048	263,685	271,363
	1986	531,477	262,279	269,198
	1987	527,907	260,874	267,033
	1988	524,335	259,468	264,867
	1989	520,765	258,063	262,702
	1990	517,194	256,657	260,537
	1991	504,121	250,187	253,934
	1992	491,037	243,714	247,323
	1993	477,970	237,245	240,725
	1994	464,885	230,763	234,122
25-29	1980	489,175	239,341	249,834
	1981	495,889	243,136	252,753
	1982	502,604	246,932	255,672
	1983	509,318	250,727	258,591
	1984	516,033	254,523	261,510
	1985	522,748	258,318	264,430
	1986	529,462	262,113	267,349
	1987	536,177	265,909	270,268
	1988	542,891	269,704	273,187
	1989	549,606	273,500	276,106
	1990	556,320	277,295	279,025
	1991	542,906	270,616	272,290
	1992	529,523	263,932	265,591
	1993	516,105	257,238	258,867
	1994	502,715	250,549	252,166

Table F-4. Population Counts and Estimates, Massachusetts: 1980-1994

AGE GROUP	YEAR	TOTAL	MALE	FEMALE
30-34	1980	446,395	217,649	228,746
	1981	455,988	222,754	233,234
	1982	465,582	227,859	237,723
	1983	475,176	232,965	242,211
	1984	484,769	238,070	246,699
	1985	494,363	243,175	251,188
	1986	503,956	248,280	255,676
	1987	513,549	253,385	260,164
	1988	523,143	258,491	264,652
	1989	532,737	263,596	269,141
	1990	542,330	268,701	273,629
	1991	537,086	266,041	271,045
	1992	531,846	263,383	268,463
	1993	526,615	260,732	265,883
	1994	521,377	258,059	263,318
35-39	1980	348,552	169,502	179,050
	1981	361,814	176,272	185,542
	1982	375,076	183,042	192,034
	1983	388,339	189,812	198,527
	1984	401,601	196,582	205,019
	1985	414,863	203,352	211,511
	1986	428,125	210,122	218,003
	1987	441,387	216,892	224,495
	1988	454,650	223,662	230,988
	1989	467,912	230,432	237,480
	1990	481,174	237,202	243,972
	1991	487,579	240,363	247,216
	1992	493,998	243,516	250,482
	1993	500,412	246,690	253,722
	1994	506,839	249,845	256,994
40-44	1980	278,748	134,925	143,823
	1981	294,210	142,572	151,638
	1982	309,673	150,220	159,453
	1983	325,136	157,867	167,269
	1984	340,599	165,515	175,084
	1985	356,061	173,162	182,899
	1986	371,523	180,809	190,714
	1987	386,986	188,457	198,529
	1988	402,449	196,104	206,345
	1989	417,912	203,752	214,160
	1990	433,374	211,399	221,975
	1991	443,742	216,488	227,254
	1992	454,118	221,573	232,545
	1993	464,496	226,676	237,820
	1994	474,880	231,775	243,105

Table F-4. Population Counts and Estimates, Massachusetts: 1980-1994

AGE GROUP	YEAR	TOTAL	MALE	FEMALE
45-49	1980	278,261	134,444	143,817
	1981	283,768	137,263	146,505
	1982	289,275	140,082	149,193
	1983	294,783	142,902	151,881
	1984	300,290	145,721	154,569
	1985	305,798	148,540	157,258
	1986	311,305	151,359	159,946
	1987	316,812	154,178	162,634
	1988	322,320	156,998	165,322
	1989	327,827	159,817	168,010
	1990	333,334	162,636	170,698
	1991	345,718	168,718	177,000
	1992	358,097	174,792	183,305
	1993	370,466	180,887	189,579
	1994	382,849	186,970	195,879
50-54	1980	306,574	146,211	160,363
	1981	302,177	144,248	157,929
	1982	297,779	142,285	155,494
	1983	293,382	140,322	153,060
	1984	288,985	138,359	150,626
	1985	284,588	136,396	148,192
	1986	280,190	134,433	145,757
	1987	275,793	132,470	143,323
	1988	271,396	130,507	140,889
	1989	266,998	128,544	138,454
	1990	262,601	126,581	136,020
	1991	277,035	133,625	143,410
	1992	291,457	140,648	150,809
	1993	305,890	147,680	158,210
	1994	320,312	154,723	165,589
55-59	1980	310,995	145,603	165,392
	1981	305,113	143,060	162,053
	1982	299,230	140,517	158,713
	1983	293,349	137,975	155,374
	1984	287,467	135,432	152,035
	1985	281,585	132,889	148,696
	1986	275,702	130,346	145,356
	1987	269,820	127,803	142,017
	1988	263,939	125,261	138,678
	1989	258,056	122,718	135,338
	1990	252,174	120,175	131,999
	1991	258,415	123,216	135,199
	1992	264,664	126,264	138,400
	1993	270,924	129,325	141,599
	1994	277,173	132,360	144,813

Table F-4. Population Counts and Estimates, Massachusetts: 1980-1994

AGE GROUP	YEAR	TOTAL	MALE	FEMALE
60-64	1980	277,384	126,323	151,061
	1981	275,837	125,852	149,985
	1982	274,288	125,380	148,908
	1983	272,741	124,909	147,832
	1984	271,192	124,437	146,755
	1985	269,645	123,966	145,679
	1986	268,097	123,495	144,602
	1987	266,549	123,023	143,526
	1988	265,001	122,552	142,449
	1989	263,453	122,080	141,373
	1990	261,905	121,609	140,296
	1991	259,702	120,630	139,072
	1992	257,490	119,652	137,838
	1993	255,294	118,691	136,603
	1994	253,082	117,704	135,378
65-69	1980	235,574	101,023	134,551
	1981	237,155	101,963	135,192
	1982	238,736	102,903	135,833
	1983	240,316	103,843	136,473
	1984	241,897	104,783	137,114
	1985	243,479	105,724	137,755
	1986	245,060	106,664	138,396
	1987	246,641	107,604	139,037
	1988	248,221	108,544	139,677
	1989	249,802	109,484	140,318
	1990	251,383	110,424	140,959
	1991	248,181	109,072	139,109
	1992	244,981	107,708	137,273
	1993	241,769	106,353	135,416
	1994	238,566	104,997	133,569
70-74	1980	187,041	73,235	113,806
	1981	189,070	74,466	114,604
	1982	191,099	75,696	115,403
	1983	193,128	76,927	116,201
	1984	195,157	78,157	117,000
	1985	197,186	79,388	117,798
	1986	199,215	80,619	118,596
	1987	201,244	81,849	119,395
	1988	203,273	83,080	120,193
	1989	205,302	84,310	120,992
	1990	207,331	85,541	121,790
	1991	208,014	85,869	122,145
	1992	208,703	86,208	122,495
	1993	209,396	86,535	122,861
	1994	210,085	86,874	123,211

Table F-4. Population Counts and Estimates, Massachusetts: 1980-1994

AGE GROUP	YEAR	TOTAL	MALE	FEMALE
75-79	1980	137,828	48,145	89,683
	1981	140,010	49,234	90,776
	1982	142,193	50,323	91,870
	1983	144,376	51,413	92,963
	1984	146,558	52,502	94,056
	1985	148,741	53,591	95,150
	1986	150,923	54,680	96,243
	1987	153,105	55,769	97,336
	1988	155,288	56,859	98,429
	1989	157,471	57,948	99,523
	1990	159,653	59,037	100,616
	1991	162,139	59,983	102,156
	1992	164,614	60,933	103,681
	1993	167,101	61,880	105,221
	1994	169,576	62,818	106,758
80-84	1980	92,180	28,513	63,667
	1981	93,592	29,009	64,583
	1982	95,004	29,504	65,500
	1983	96,416	30,000	66,416
	1984	97,828	30,495	67,333
	1985	99,240	30,991	68,249
	1986	100,651	31,486	69,165
	1987	102,064	31,982	70,082
	1988	103,475	32,477	70,998
	1989	104,888	32,973	71,915
	1990	106,299	33,468	72,831
	1991	108,378	34,156	74,222
	1992	110,457	34,867	75,590
	1993	112,539	35,553	76,986
	1994	114,616	36,230	78,386
≥ 85	1980	73,908	20,107	53,801
	1981	75,551	20,287	55,264
	1982	77,195	20,467	56,728
	1983	78,837	20,646	58,191
	1984	80,480	20,826	59,654
	1985	82,124	21,006	61,118
	1986	83,767	21,186	62,581
	1987	85,410	21,366	64,044
	1988	87,052	21,545	65,507
	1989	88,696	21,725	66,971
	1990	90,339	21,905	68,434
	1991	94,434	22,982	71,452
	1992	98,514	24,044	74,470
	1993	102,592	25,104	77,488
	1994	106,670	26,174	80,496

Table F-4. Population Counts and Estimates, Massachusetts: 1980-1994

AGE GROUP	YEAR	TOTAL	MALE	FEMALE
TOTAL	1980	5,737,037	2,730,893	3,006,144
	1981	5,764,975	2,746,678	3,018,297
	1982	5,792,914	2,762,462	3,030,452
	1983	5,820,854	2,778,250	3,042,604
	1984	5,848,792	2,794,034	3,054,758
	1985	5,876,737	2,809,820	3,066,917
	1986	5,904,670	2,825,604	3,079,066
	1987	5,932,611	2,841,389	3,091,222
	1988	5,960,548	2,857,176	3,103,372
	1989	5,988,490	2,872,961	3,115,529
	1990	6,016,425	2,888,745	3,127,680
	1991	6,038,684	2,898,274	3,140,410
	1992	6,060,943	2,907,757	3,153,186
	1993	6,083,200	2,917,315	3,165,885
	1994	6,105,460	2,926,746	3,178,714

APPENDICES

USE ONLY STATE APPROVED RIBBONS AND MASS. STANDARD INK
AS REQUIRED BY GEN. LAWS, CHAP. 66, SECT. 4



The Commonwealth of Massachusetts
DEPARTMENT OF PUBLIC HEALTH --
REGISTRY OF VITAL RECORDS AND STATISTICS
STANDARD CERTIFICATE OF LIVE BIRTH

STATE USE ONLY

1. RECORD NUMBER	C H I L D	3C. CITY/TOWN				
1A. CERTIFICATE NUMBER (DPH USE ONLY)		3B. COUNTY				
2. FACILITY NUMBER		3A. FACILITY NAME-IF NOT IN FACILITY, NUMBER AND STREET				
		NAME 4A. FIRST		4B. MIDDLE		4C. LAST
	D	5. SEX	6A. PLURALITY	6B. BIRTH ORDER	7. TIME	8. DATE OF BIRTH (Month, Day, Year)
C E R T I F I C A T E		9A. SIGNATURE (I Certify that the Child was Born Alive at Date and Time and Place Stated.)			9B. TYPE OR PRINT NAME	
		9D. NO. & STREET			9E. CITY/TOWN	9F. STATE
		9I. TYPE			9J. TITLE	
		9G. ZIP CODE			9H. DATE SIGNED (Month, Day, Year)	
		9C. LICENSE NUMBER				
M O T H E R		NAME 10A. FIRST		10B. MIDDLE	10C. LAST	
		10D. MAIDEN SURNAME				
		BIRTHPLACE 11A. CITY/TOWN		11B. STATE/COUNTRY		12. DATE OF BIRTH (Month, Day, Year)
F A T H E R		RESIDENCE 13A. NUMBER AND STREET (Do not use mailing address)		13B. CITY/TOWN	13C. COUNTY	13D. STATE 13E. ZIP CODE
		NAME 14A. FIRST		14B. MIDDLE	14C. LAST	
2A. SOCIAL SECURITY CARD		BIRTHPLACE 15A. CITY/TOWN		15B. STATE/COUNTRY		16. DATE OF BIRTH (Month, Day, Year)
INITIALS	I N F O R M A N T	17A. I (WE) CERTIFY THAT THE PERSONAL INFORMATION APPEARING ABOVE IS TRUE AND CORRECT.				17B. RELATIONSHIP TO CHILD
2B. RESIDENT COPY		17C. DATE SIGNED (Month, Day, Year)	17D. MAILING ADDRESS (If different from item # 13 above)		NUMBER AND STREET	CITY STATE ZIP CODE
INITIALS	C L E R K	18. DATE OF RECORD (Month, Day, Year)		19. SUPPLEMENT FILED (Month, Day, Year)		20. CLERK/REGISTRAR
1. OCCURRENCE		21. DPH USE ONLY				

INSTRUCTIONS ON REVERSE SIDE)
FOR USE BY
PHYSICIANS AND
MEDICAL EXAMINERS



The Commonwealth of Massachusetts

STANDARD CERTIFICATE OF DEATH
REGISTRY OF VITAL RECORDS AND STATISTICS

STATE USE ONLY		REGISTERED NUMBER		STATE USE ONLY	
1		2		3	
PLACE OF DEATH (City/Town)		COUNTY OF DEATH		HOSPITAL OR OTHER INSTITUTION - Name (If not in either give street and number)	
4a		4b		4c	
PLACE OF DEATH (Check only one) ☐ Inpatient ☐ ER/Outpatient ☐ DOA ☐ OTHER ☐ Nursing Home ☐ Residence ☐ Other (Specify)		SOCIAL SECURITY NUMBER		IF US WAR VETERAN SPECIFY WAR	
5		6		7	
WAS DECEDENT OF HISPANIC ORIGIN? (If yes Specify Puerto Rican, Dominican, Cuban, etc.) ☐ NO ☐ YES 8a Specify		RACE (e.g. White, Black, American Indian, etc.) (Specify)		DECEDENT'S EDUCATION (Highest Grade Completed) Elem/Sec (10-12) College (1-4 5+)	
8b		8c		8d	
AGE - Last Birthday (Yrs)		DATE OF BIRTH (Mo. Day Yr.)		BIRTHPLACE (City and State or Foreign Country)	
10a		10b		10c	
MARRIED, NEVER MARRIED, WIDOWED OR DIVORCED		LAST SPOUSE (If wife give maiden name)		USUAL OCCUPATION (Prior - If retired)	
12		13		14a	
RESIDENCE - NO. & ST., CITY/TOWN, COUNTY, STATE/COUNTRY		14b		ZIP CODE	
15a		15b		15c	
FATHER - FULL NAME		STATE OF BIRTH (If not in US name country)		MOTHER - NAME (GIVEN) (MAIDEN)	
16		17		18	
INFORMANT'S NAME		MAILING ADDRESS - NO. & ST., CITY/TOWN, STATE, ZIP CODE		RELATIONSHIP	
20		21		22	
METHOD OF DISPOSITION ☐ BURIAL ☐ CREMATION ☐ ENTOMBMENT ☐ REMOVAL FROM STATE ☐ DONATION ☐ OTH. SPEC		FUNERAL SERVICE LICENSEE		LICENSE #	
23		24		25	
PLACE OF DISPOSITION (Name of Cemetery, Crematory or other)		LOCATION (City/Town, State)		26	
26a		26b		26c	
DATE OF DISPOSITION (Mo., Day, Yr.)		NAME AND ADDRESS OF FACILITY		28a/b	
27		28a/b		28c	
29 PART I - Enter the diseases, injuries, or complications that caused the death. Do not use only the mode of dying, such as cardiac or respiratory arrest, shock or heart failure. List only one cause on each line (a through d). PRINT OR TYPE LEGIBLY.		Approximate Interval Between Onset and Death			
IMMEDIATE CAUSE (Final disease or condition resulting in death)		a		DUE TO OR AS A CONSEQUENCE OF	
Sequentially list conditions, if any leading to immediate cause. Enter UNDERLYING CAUSE (disease or injury that initiated events resulting in death) LAST.		b		DUE TO OR AS A CONSEQUENCE OF	
		c		DUE TO OR AS A CONSEQUENCE OF	
		d		DUE TO OR AS A CONSEQUENCE OF	
PART II - Other significant conditions contributing to death but not resulting in underlying cause given in Part I		WAS AUTOPSY PERFORMED? (Yes or No)		WERE AUTOPSY FINDINGS AVAILABLE PRIOR TO COMPLETION OF CAUSE OF DEATH? (Yes or No)	
30		31		32	
WAS CASE REFERRED TO M.E.? (Yes or No)		34 MANNER OF DEATH ☐ NATURAL ☐ HOMICIDE ☐ COULD NOT BE DETERMINED ☐ ACCIDENT ☐ SUICIDE ☐ PENDING INVESTIGATION		DATE OF INJURY (Mo., Day, Yr.)	
33		34a		34b	
DESCRIBE HOW INJURY OCCURRED		PLACE OF INJURY - At home, farm, street, factory, office bldg, etc. Specify		LOCATION (No. & St., City/Town, State)	
35d		35e		35f	
36a To the best of my knowledge, death occurred at the time, date, and place and due to the cause(s) stated (Signature and Title)		37a On the basis of examination and/or investigation in my opinion death occurred at the time, date, and place and due to the cause(s) stated (Signature and Title)			
DATE SIGNED (Mo., Day, Yr.)		DATE SIGNED (Mo., Day, Yr.)		HOUR OF DEATH	
36b		37b		37c	
NAME OF ATTENDING PHYSICIAN IF NOT CERTIFIER		PRONOUNCED DEAD (Mo., Day, Yr.)		PRONOUNCED DEAD (Hr.)	
36d		37d		37e	
NAME AND ADDRESS OF CERTIFYING PHYSICIAN OR MEDICAL EXAMINER (Type or Print)		38		LICENSE NO. OF CERTIFIER	
38		39		40	
WAS THERE AN R.N. PRONOUNCED? Yes or No		IF YES, DATE PRONOUNCED		IF YES, TIME PRONOUNCED	
40a		40b		40c	
DATE BURIAL PERMIT ISSUED		RECEIVED IN THE CITY/TOWN OF		DATE OF RECORD	
SIGNATURE - BD OF HEALTH AGENT		CLERK'S SIGNATURE		43	
41		42		43	

BLACK INK ONLY

DEPARTMENT OF PUBLIC HEALTH
REGISTRY OF VITAL RECORDS AND STATISTICS

REPORT OF FETAL DEATH

STATE FILE NUMBER

1a HOSPITAL - NAME (If not in hospital, give street and number)				1b CITY, TOWN OR LOCATION OF DELIVERY				1c COUNTY OF DELIVERY											
2a DATE OF DELIVERY (Month, Day, Year)				2b HOUR OF DELIVERY				2c SEX OF FETUS				2d WEIGHT OF FETUS							
3a MOTHER - MAIDEN NAME FIRST MIDDLE LAST				3b AGE (at time of this delivery)				3c RESIDENCE - STATE				3d COUNTY							
4a CITY, TOWN OR LOCATION				4b STREET AND NUMBER				4c PREGNANCY HISTORY (Complete for each live birth and stillbirth)											
5a RACE - Is d, White, Black, American Indian, etc. (Specify)				5b EDUCATION (Specify only highest grade completed)				5c DATE LAST MENSTRUATION BEGAN (Month, Day, Year)				5d IS MOTHER MARRIED? (Specify yes or no)							
6a MONTH OF PREGNANCY PRENATAL CARE BEGAN (First, second, etc. (Specify))				6b PRENATAL VISITS - Total number (If none, so state)				6c THIS BIRTH - Single, Twin, triplet, etc. (Specify)				6d IF NOT SINGLE BIRTH - Born first, second, third, etc. (Specify)							
7a MONTH OF LAST LIVE BIRTH (Month, Year)				7b DATE OF LAST OTHER TERMINATION (See and record in d or e above) (Month, Year)				8a LIVE BIRTHS				8b OTHER TERMINATIONS (Stillborn, induced, etc.)							
9a FATHER - NAME FIRST MIDDLE LAST				9b AGE (at time of this delivery)				9c RACE - Is d, White, Black, American Indian, etc. (Specify)				9d EDUCATION (Specify only highest grade completed)							
10a Fetal or maternal condition directly causing fetal death.				10b Fetal and/or maternal conditions, if any giving rise to the immediate cause (a), stating the underlying cause last.				10c IMMEDIATE CAUSE (ENTER ONLY ONE CAUSE PER LINE FOR (a), (b), AND (c))				10d Specify Fetal or Maternal							
11a OTHER SIGNIFICANT CONDITIONS OF FETUS OR MOTHER Conditions contributing to fetal death but not related to cause given in (a)				11b FETUS DIED BEFORE LABOR, DURING LABOR OR DELIVERY, UNKNOWN (Specify)				11c PHYSICIAN'S ESTIMATE OF GESTATION				11d AUTOPSY (Specify yes or no)							
12a COMPLICATIONS OF PREGNANCY (Describe or write "none")				12b COMPLICATIONS OF LABOR AND/OR DELIVERY (Describe or write "none")				12c CONCURRENT ILLNESSES OR CONDITIONS AFFECTING THE PREGNANCY (Describe or write "none")				12d CONGENITAL MALFORMATIONS OR ANOMALIES OF FETUS (Describe or write "none")							
13a NAME OF PHYSICIAN OR ATTENDANT (Type or print)				13b NAME OF PERSON COMPLETING REPORT (Type or print)				13c TITLE				13d							
14a BURIAL, CREMATION, OR BY HOSPITAL				14b CEMETERY OR CREMATORY - NAME OR WRITE "NONE"				14c LOCATION				14d CITY OR TOWN				14e STATE			
15a NAME OF FUNERAL DIRECTOR (If any)				15b NAME OF FACILITY (Hospital or funeral home)				15c ADDRESS OF FACILITY				15d				15e			
16a I HEREBY CERTIFY that this delivery occurred on the date stated and product of conception was not a live birth.																			
16b Signature of Attending Physician or Medical Examiner																			
16c TITLE																			

DEFINITION:

"Fetal death" per chapter 111 section 202 of the M.G.L. means death prior to the complete expulsion or extraction from its mother of a fetus, irrespective of the duration of pregnancy, as indicated by the fact that after such expulsion or extraction the fetus does not breathe or show any other evidence of life such as beating of the heart, pulsation of the umbilical cord, or definite movement of voluntary muscles. A fetal death does NOT include an induced abortion as defined in section 12K of chapter 112 of M.G.L. . Spontaneous abortions are to be included.

TO BE REPORTED:

Only fetal deaths of twenty weeks or more gestation or of a weight of 350 grams or more are to be reported.

INSTRUCTIONS:

Return completed reported within 10 days to the Registry of Vital Records and Statistics, Rm.



The Commonwealth of Massachusetts

DEPARTMENT OF PUBLIC HEALTH
REGISTRY OF VITAL RECORDS AND STATISTICS

CERTIFICATE OF MARRIAGE

This certificate must be delivered to the person before whom the marriage is to be contracted before he proceeds to solemnize the same

(State file number)

(City or town making return)

Registered No. _____

Intention No. _____

1 Place of Marriage

City or Town _____

(Do not enter name of village or section of city or town)

2 Date of Marriage _____

(Month)

(Day)

(Year)

3 FULL NAME GROOM

12 FULL NAME BRIDE

3A SURNAME
AFTER MARRIAGE12A SURNAME
AFTER MARRIAGE

4 DATE OF BIRTH

5 OCCUPATION

13 DATE OF BIRTH

14 OCCUPATION

6 RESIDENCE

NO. & ST. _____

CITY/

TOWN _____

ZIP
CODE _____

15 RESIDENCE

NO. & ST. _____

CITY/

TOWN _____

ZIP
CODE _____7 NUMBER OF
MARRIAGE
(1st, 2nd, 3rd, etc.)8 WIDOWED
OR DIVORCED16 NUMBER OF
MARRIAGE
(1st, 2nd, 3rd, etc.)17 WIDOWED
OR DIVORCED

9 BIRTHPLACE

(City or town)

(State or country)

18 BIRTHPLACE

(City or town)

(State or country)

10 MAIDEN NAME
OF MOTHER19 MAIDEN NAME
OF MOTHER11 NAME OF
FATHER20 NAME OF
FATHER

21 THE INTENTION OF MARRIAGE by the above-mentioned persons was duly entered by me in the records of the Community of _____ according to law, this _____ day of _____ 19____

(Name of Community)

☐ COURT WAIVER Issued

by _____

☐ AGE ORDER

(Month)

(Day)

(Year)

(City or Town Clerk or Registrar)

22 I HEREBY CERTIFY that I joined the above-named persons in marriage at No. _____ St.,
(If marriage was solemnized in a church, give its NAME instead of street and number)

(Name of city or town)

on _____

(Month)

(Day)

(Year)

Signature _____

Official station _____

(Minister of the Gospel, Clergyman, Priest, Rabbi, or Justice of the Peace)

(Print or type name)

Residence No. _____

St., City or Town of _____

23 Certificate recorded by city or town clerk _____

(Month)

(Day)

(Year)

CLERK OR REGISTRAR

**CERTIFICATE IS
TO BE USED
SIDE OF
MASSACHUSETTS.**

VALID AFTER:

IS A PERMANENT RECORD.
by permanent black ink or approved
typewriter ribbon. Every item of
information should be carefully supplied.
ALTERATIONS AND ERASURES IN
THIS CERTIFICATE ARE FORBIDDEN.
PENALTY FOR VIOLATION,
HUNDRED DOLLARS.

CHAP. 207, §§ 28, 28A, 48, 49,
and CHAP. 46, § 18.

**MEDICAL
CERTIFICATES
IN FILE**

**COMMISSION
IN FILE**

The Commonwealth of Massachusetts
DEPARTMENT OF PUBLIC HEALTH
REGISTRY OF VITAL RECORDS AND STATISTICS
CERTIFICATE OF ABSOLUTE
DIVORCE OR ANNULMENT
(Chap. 208, Sec. 46 G.L.)
R-408

HUSBAND NAME		FIRST	MIDDLE	LAST
USUAL RESIDENCE STREET ADDRESS		CITY TOWN OR LOCATION		
2a	COUNTY	STATE	DATE OF BIRTH (Mo. Day Yr.)	NUMBER OF THIS MARRIAGE (1st, 2nd, Specify)
2c	2d	3	4	
WIFE NAME		FIRST	MIDDLE	LAST
5a		5b		
USUAL RESIDENCE STREET ADDRESS		CITY TOWN OR LOCATION		
6a	COUNTY	STATE	DATE OF BIRTH (Mo. Day Yr.)	NUMBER OF THIS MARRIAGE (1st, 2nd, Specify)
6c	6d	7	8	
DATE OF THIS MARRIAGE (Mo. Day Yr.)	NUMBER OF CHILDREN BORN ALIVE OF THIS MARRIAGE		NUMBER OF CHILDREN UNDER AGE 18 IN THIS FAMILY	
9	10a		10b	

FOR COURT USE ONLY			
COUNTY OF JUDGMENT		TITLE OF COURT	
11	DATE OF JUDGMENT NISI (Mo. Day Yr.)		DATE OF JUDGMENT ABSOLUTE (Mo. Day Yr.)
12	TYPE OF JUDGMENT - DIVORCE OR ANNULMENT (Specify)		14
DOCKET NUMBER	NAME OF PLAINTIFF	CAUSE FOR WHICH GRANTED	
15	16	17	
SIGNATURE OF CERTIFYING OFFICIAL		TITLE OF OFFICIAL	
18a		18b	

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